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<210> 1888

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<213> Homo sapiens

<400> 1888

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<400> 1889

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<212> DNA

<213> Homo sapiens


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<211> 2622

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<210> 1893

<211> 3111

<212> DNA

<213> Homo sapiens

<400> 1893

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<210> 1894

<211> 3724

<212> DNA

<213> Homo sapiens

<400> 1894

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<211> 2960

<212> DNA

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<400> 1897

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<213> Homo sapiens

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<211> 4401

<212> DNA

<213> Homo sapiens

<400> 1899

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<213> Homo sapiens

<400> 1901

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<400> 1908

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<210> 1909
<211> 3504
<212> DNA
<213> Homo sapiens

<400> 1909

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<210> 1910

<211> 2848

<212> DNA

<213> Homo sapiens

<400> 1910

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tctgtgtaaa agatactcca taataagtgt ttaaaagcaa accacttcat gattcgtat      240

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ataaagagtt gacagcagtt taacgtatct ttgtggtgta taagtatgtt cttcagtgga     720

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<210> 1911

<211> 3697

<212> DNA

<213> Homo sapiens

<400> 1911

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<400> 1912

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<213> Homo sapiens

<400> 1913

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<210> 1915

<211> 3209

<212> DNA

<213> Homo sapiens

<400> 1915

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<211> 3330

<212> DNA

<213> Homo sapiens

<400> 1917

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<210> 1918

<211> 3164

<212> DNA

<213> Homo sapiens

<400> 1918

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<212> DNA

<213> Homo sapiens

<400> 1919

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<210> 1920

<211> 3465

<212> DNA

<213> Homo sapiens

<400> 1920

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<210> 1921

<211> 3751

<212> DNA

<213> Homo sapiens

<400> 1921

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<210> 1923

<211> 3294

<212> DNA

<213> Homo sapiens

<400> 1923

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<210> 1924

<211> 2452

<212> DNA

<213> Homo sapiens

<400> 1924

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<210> 1925

<211> 3357

<212> DNA

<213> Homo sapiens

<400> 1925

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<210> 1926

<211> 1990

<212> DNA

<213> Homo sapiens

<400> 1926

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<210> 1927

<211> 1886

<212> DNA

<213> Homo sapiens

<400> 1927

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<210> 1928

<211> 2347

<212> DNA

<213> Homo sapiens

<400> 1928

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<210> 1929

<211> 2364

<212> DNA

<213> Homo sapiens

<400> 1929

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<210> 1930

<211> 2179

<212> DNA

<213> Homo sapiens

<400> 1930

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<210> 1931

<211> 2429

<212> DNA

<213> Homo sapiens

<400> 1931

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aaatcttggg gttcatatat ccagggtcaa atcagtcaac ctagaccaat ggacagcaga    300
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<210> 1932

<211> 2142

<212> DNA

<213> Homo sapiens

<400> 1932

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tgatgacccg gtgtccaggc acagacacac ccagagtcct cctgaccagc tcatcagcag    240
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<210> 1933

<211> 2145

<212> DNA

<213> Homo sapiens

<400> 1933

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cttcctgccc atggcaccta gaacagcagt gaggtctcag agaagccccc gcctgggctc     180

cctgggagct aaccttgcag cctctgggtt atctttggca aagggtctca aagtccccta     240

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ggtgttcttt tccgtgttgt tcacattttc tctctttctc tctctctcca ctaatcatgt     540

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ccccagagac gccccggccc cagtcacatg gtgtcagagt taccttggca actggccttt    1980

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tgaaatgctt tgccatcttg tacgaaagac tttttttta agttccaaaa ttatgatggg    2100

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<210> 1934

<211> 1776

<212> DNA

<213> Homo sapiens

<400> 1934

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ctctcgcttg agtgaattgg atggaagtgg tgaatttcag ccaaagtggc caaagaaatc     240

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<212> DNA

<213> Homo sapiens

<400> 1935

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<210> 1936

<211> 2763

<212> DNA

<213> Homo sapiens

<400> 1936

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<211> 2299

<212> DNA

<213> Homo sapiens

<400> 1937

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<210> 1938

<211> 1854

<212> DNA

<213> Homo sapiens

<400> 1938

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<210> 1939

<211> 2913

<212> DNA

<213> Homo sapiens

<400> 1939

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<211> 2287

<212> DNA

<213> Homo sapiens

<400> 1940

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tgtattctgc cttcagacca tctagtacct gctggtactc tgaacaagta tataaggtag    180

tttttatatc aatgtgtgga acacttgaca agctatactt taatgttacc aaactatatg    240

aaacaaacca tatatggtca caataccact atctttaatg agcatttgta tatttatat     300

gcaacagtgc tcagcttatg tttaccatgt gcaaaatcaa ctgtctttaa tgacttaaaa    360

ttaacttttg caaacaattc taaatacagg tggtcttcaa gtagtaaaac cacaaaaggc    420

agttttctat ctatggtcat cttttctccc tttaagttaa ttttatataa acaagacttc    480

aaaagtaaat cacatttttt caggtgcaga catccttgtg ggtgggaaag aatttaaacc    540

tttttatat ttattaaaat gttctaagaa ttttcttaaa cattgcacaa agtttaatgc     600

tgtagtttta tttttgtgaa atgtagatgc gcatacaaga gctaagcaaa atagaagagc    660

atcgacataa gaaaagttca ggtatctaat attcgtctta atagtctatt aacttgtgaa    720

agctaagtta atggaaatat tattccaaat ctatgagaac acttggtgta tcagggcaaa    780

gctttgtaag atgtttttgt aactaagacc aagattgaag atagagctgc tttattttct    840


tggtttaaat cttcctttat ttttgtagtg atgagatgct gattgtgtac agaagaattt    900
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atatataaat ttcagcccaa actcatgttt ttaaactcca actcttaaaa gacaacaagg   1020
tataaactga aatgaatcaa ctttccactt agtttccaat tttcccctag tccactaatt   1080
aaacttaggt aattatactt caggtaggga agtacaatat gtttagtttc aggctgatgt   1140
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ctatttgtaa aaacatttat ttactgcatg gatattgacg cacattaaat ttgtgggatt   1860
ttgtatatgt aaaaaaaaaa aaaaaaaaaa aaaacaaaaa acctcttgtc ctaaaatgaa   1920
gtgtgcttgt taacaggtgt ttagacttat tgatgtttac tagaccaaat gtgtatgttc   1980
acttaaaaat atatgtacct gatggatgtg tcatgtttac agtggccagg ttgtggcctg   2040
taaacagcaa gcagttgacg ggaagactag ctctgttgct actaagcagc ttttactttt   2100
gtaaagtcag ctctgttgtt ttaaatggta aaaattaaac taatgaattt gacaagactc   2160
gtggctagcc tagcatgaaa gagacctttt aacactatat aatatctgta catttattg   2220
cattcgtttc aaatctagga gagaggcagc actgtaaact gaagtcaaat aaaattcagct   2280
cttaatg                                                            2287
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<210> 1941
<211> 2094
<212> DNA
<213> Homo sapiens

<400> 1941

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aggggtacta aatttgaaca cagtggctga gtggtccggg gacctccaat ctgcacccca   120
aacacccgcc ctctgaagct gtgctcataa cagaccccaa aattcccctg gaagcccctc   180
cagggttgaa ttggggcaaa tgagtggtga gtcattcctt ccctaggcc cgggaagtga   240
```

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ctcatgccca gccgttgtcc tggtccccat ccctctgccc gacacccccc ttcaggtctc    300
cctggattat tggggtcccc agtattccca gatcggcagg gactggacgt cccctcccag    360
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ctgaggcaga ggaattgctt gaacccggga ggtggaggtt gcagtgagcc aggatcgtgc    840
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aaataaataa aagaagaaga aatgaagatg gcagtaaatg ctcaggcaca ccggacagca    960
gtcatgtggt ttactcccac acacactaca ctggggagtg ggcgccatca tccctattct   1020
acagagggaa actgaggcag agaggcccac tgtctgggat ttgaactggg gatgcctggc   1080
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ctccagcctg ggtgacagag tgagactccg tttcaaaaaa aaaaattatt tttaattttt   1620
tggcctggca tgataaatta ttttatttta aaattttga gtcaggaaat gtggctcacg   1680
cctgtaatcc cagcactttg ggaggccaag acaggcagat cacctgaggt caggagttcg   1740
agaccagcct ggccaatatg gtgaaaccct gtctctagta aaaatacaaa aaattagccg   1800
ggtgtggtgg cagactcctg taatcccagc tactcaggag gctgaagcag gagaatcact   1860
tgaacccagg aggtagagat tgcagtgagc caagatcaca gcattgcact tcagcctggg   1920
cgacagagca agactctgtc tcaaaaagaa aaaaaattt agtgcacacc tgtggtccca   1980
gctacttggg aggctgaggc aggaggatct cttgagccta ggaattggag gctgcagtga   2040
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<210> 1942

<211> 1995

<212> DNA

<213> Homo sapiens

<400> 1942

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tcattaaaga gaaattataa aaaggagctg aggccaggtg tgatggctca tgccggtaat   120

cccagcactt tgggaggcca aggctcgtgg atcatgaggt caggagttcg agaccagcct   180

ggccaacatg gtgaaacctc atctctacta aaaatacaag aactagctgg gtgtggtggc   240

atgcctgtgt tcccagctac tcaggagggt aaggcaggag aatcacttga acccaggagg   300

tggaggttgc agtgcaccca gattgcacca ctgcactcca gcctgggtga cagagcgaga   360

ctcttagaaa aaaaaggagc tgaaatgaaa ttctagacct gaaagataca gtaactgaaa   420

tggaaaattt acatagaggg gttcaaaaac agatttgaat gagcagaaga aagaaccagc   480

aaatttgaat atatttcttt gtaaaatacc cgcggaaccc tgttccttcg ttttacctcc   540

tgcttcctta gctcaagcct tcctcatctt aggcagcctc caaactattc tatcaacctc   600

cccttttccc tgctctagtt ttactagagt gatctttaaa aaaaccccaa atctaatatt   660

gtcactgtcc tttaaaatat ccaagggcac ccgtgtgtct atagagtgaa cttcagtttc   720

cttatttttag cattcaagga ccttcctatt ttggctccag cctactacat tgctttattt   780

cacaccagcc ccacattcca ttcatatact gtaaccacat tttcttgggt acaaagtcac   840

ttactgaaaa aaagttgagc atatttggaa accaaaattc attttctgtg aatgggatat   900

caatatatag cattggtagg cattgaaaca gactatagtc tatttttaaa atggattaga   960

tgataaaaac aacatgtatg tcatcactaa tccagtggtc aatattagca taactctgta  1020

agatacaata aatgttgtat ctattgtaga tacaatgtta tgtatctaac ataatatcta  1080

acatgttaga ttcataacgt tgtatgtaat ataatgaaac atgaagtata acctgtcact  1140

tgtgaggtat actagtctga tatgtttgac ttgaatccac tgagtcttca aatataactt  1200

tcttgttcaa gaaatacaag gcttgcagga acaagctcaa tgacttcatg aggaagcaac  1260

cactcagata aaaacatttt gcacttcaag tggcctgatt tctacagtga acaagaatct  1320

tttaattttt ttttatgtgc cataattaaa aagtcaaggg atgtaaccag atggaatgta  1380

tggtcctgaa ttggataatt tgggtatact ggttgtagaa aaatataatt tggtcaacag  1440

aatatttgat tgtagttagg tattatgtga gaggaaattt tcctgtaaca ttactgagtt  1500

aagaaagcca actgtaaaaa taactttaga tggatagaaa atgtgaatgt gatctaggaa  1560

ttaggtgaga agaaaatgta ctgaaataag gtagatattt ttaattgaaa aaggagatga  1620

ctaaagtgat ctcattttga aaaaaaaaat acacacacac agaaggatat actctaaagt  1680

attaacattg gccctgggaa tgccatggtt ttttttgtt tttcattaaa acatagagac  1740

acggtctcac tatgttgccc aggagttcga gggtggagtg tgatatgatc gtctgtgaat  1800

agccacagca ctgcatcctg gacaagatag ggtctcttta aaaataagac ttaactagca  1860

ctttaataat cattgttttt gttcccaact gcattgtaca ttcattgagg acagggactt  1920

taaacttcat tatattgctg ttgctgtgtt tcacctttga atgattttta aataaaaatc  1980
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<210> 1943

<211> 2254

<212> DNA

<213> Homo sapiens

<400> 1943

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cctacataca gaaccatcta taagagaaac acactttaaa tgtgcaccat cgggaatgga   180

acgaacgggc ccgcctcgcc agggaaccct tattcgcttg aatccggaaa tagacaaaat   240

ggcaactttt tggaatattt tgagagctaa gatgtgccaa tttgcatccc caacaatctc   300

tcccgtcctg caaatcttaa ttcaaaatcg aacgatagaa aacagggtga tggtggagga   360

tgttctggct aagaaggcgc agaacccgtt agaaagaaac cgccggtacc cgcagccgga   420

agcgagtgga ttctgagccg gcccggttct ctggtgcgga acgcgcggtt cgcggcccct   480

acctcgccgg ctgccggtcc ctaggcgggc agcgcggctc cgaagctcca gctgagcgga   540

gcagaggtat tttcaatcca cgcgccccgc ccgcagccct gcgcccctag ccctgccccg   600

cgcgcggagt tccctgggcg cgtaccttcc aggtagaacg cccggcagcc ctcgtccttg   660

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ctgctctcgt cgtagagcac cactgtgtcg gtgccacagc gccgggtgaa gcggtcccgg   780

tcctcgccgc gcgtgaagag cgcgcgcacc ggcaggttac ccttctgcag cgccgcagc   840

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cataggccga gcgcaccgcg cgcgaagctg ccgctctcgg agcggggttt aattccgcct   1140

cgccttaccc aagccgaggc tagcggttgg ggcagacgag acagaagtaa agccggaggt   1200

tctctctgca cccagctgca gccgctggct cttagtgtca atgaatctct ctcaatgaag   1260

ctgcccagat agtttttgtt cctccccagt gaatgaaatc caattaattc ggactccgtg   1320

ctactgagag gggaggaaaa aaagtctagc ggcttctaat ccctccctcc aaggctgcac   1380

ctcaaatcta cccgggcgtc tttctccccg gattatttaa gactcgattt gctatctctt   1440

ggactcagcc tcgcacaccc cctgcgcgag gcagctcctc aatggataca aacagcgagc   1500

gtctcaatgg atacattctc cgggccagcc aatgagcgtg ctgcggaagg ggctgttgcc   1560

gtggggacgg gccggctgga acaggttgtg ttgatgaatt gttaatgagt ttgtcattca   1620

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caaaaacgga aaggaatttc cgctccggat aagccccagt gcaaacaagc tgcaacagcg   1680

ggctcggcgg gaggaaggag aaagaagggg aggcggcagc ggaggaggag cagggcacat   1740

aaaccagggc acttcagttg tctcatgttt ccttctgttg agagttcaca cttcgcgtcg   1800

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aatgctaatc caacatattt cgaaacaaac caggattttg ttgaaacatt ttaaagcaaa   2160

caaacaaacg tctggttgtg cagaaaatca gaagaaaacc ttttttctta aaataacatt   2220

ttattttcat taaaacaatg tagagtgcag aaac                               2254
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<210> 1944

<211> 1082

<212> DNA

<213> Homo sapiens

<400> 1944

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gactgagggg agggatggga accaggcctt ttggcaaaca aggcctgagt gttgctcttg    180

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aacctagagg ttgggagggg agaaatggga ggggcgggag tggagaggtg accctgttct   1020
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tc   1082

<210> 1945

<211> 1352

<212> DNA

<213> Homo sapiens

<400> 1945

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tcagctggtc gccgccctgg agaggcaggt gtttgacttc ctgggctacc agtgggcgcc 120

catcctggcc aactttgtcc acatcatcat cgtcatcctg ggactcttcg gcaccatcca 180

gtaccggctg cgctacgtca tggtgtacac gctgtgggca gccgtctggg tcacctggaa 240

cgtcttcatc atctgcttct acctggaagt cggtggcctc ttacaggaca gcgagctact 300

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cgtctcgtcg aggagcccct ccctcaggtg cccacctggg gctgctggac cctcgggctg 1020

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<210> 1946

<211> 2941

<212> DNA

<213> Homo sapiens

<400> 1946

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gaggtctctg gtcggcctca ccttttgtac ctgctacctg gcttcttacc tcacgaacaa     180

gtatgtgctg tctgtcttga aatttaccta ccctacatta ttccaagggt ggcagacgct     240

cattggtgga cttttgcttc atgtgtcctg gaaactgggc tgggtagaga tcaacagcag     300

ttcaagatct catgttcttg tgtggcttcc tgcttcagtg ctgtttgtgg gtataatcta     360

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ggttgtcttt ttttttttc attttaaaa ttttaaattt ttatttatta ttattttta    1440

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gttacatagg tatgcacgtg ccatggtggt ttgctgcacc catcaacctg tcacctacat    2820

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<210> 1947
<211> 3434
<212> DNA
<213> Homo sapiens
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agaatgtcta tgccaaagat tggatggtga tgaatatgac tcaaaacagg gttttttctcc    360

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aacttcagct ctggaacaat tacttccatt tggcagttgc attctcacc catgagtccc    480

ttcagcttga aaccttctca caagccaagc gcaacaaaat tgttaaaaaa tatggggaca    540
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<210> 1948

<211> 3128

<212> DNA

<213> Homo sapiens

<400> 1948

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ctccaacacc agactcccca agccctggca cagagatggc tgtctggggt ggccccgtag   240

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agcataagct gcacatgtga gggagatggt gttggcccca aggagtcaga tgactccagt   720

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<210> 1949

<211> 1974

<212> DNA

<213> Homo sapiens

<400> 1949

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aacaggcact gccaaattca gggaacagtg gtggccagct tggaggatgg acatttctgg  1920
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<210> 1950

<211> 2039

<212> DNA

<213> Homo sapiens

<400> 1950

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<210> 1951

<211> 2010

<212> DNA

<213> Homo sapiens

<400> 1951

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ccttccctgt ggcaatggga ttcagagcca ggactgggta cagggcctgg ctcatgggga   1920
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<210> 1952

<211> 2096

<212> DNA

<213> Homo sapiens

<400> 1952

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tcacttacag ggcttccggt caaaattcac taggtaggag ggtcatcagc tgggaagaac    180
cggcgcctgg gaaacctggc tggataggta tgggggagcc aggccagtcc cctagtccca    240
ggtcctccca tggcagtccc ccaactctaa gcactctcac tctcctgctg ctcctctgtg    300
gacatgctca ttctcaatgc aagatcctcc gctgcaatgc tgagtacgta tcgtccactc    360
tgagccttag aggtgggggt tcatcaggag cacttcgagg aggaggagga ggaggccggg    420
gtggaggggt gggctctggc ggcctctgtc gagccctccg ctcctatgcg ctctgcactc    480
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ggcgcaccgc ccgcacctgc cgcgggggacc tcgccttcca ttcggcggta catggcatcg     540

aagacctgat gatccagcac aactgctccc gccagggccc tacagcccct cccccgcccc     600

ggggccccgc ccttccaggc gcgggctccg gcctccctgc cccggaccct tgtgactatg     660

aaggccggtt ttcccggctg catggtcgtc ccccgggggtt cttgcattgc gcttccttcg    720

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aatcattaaa ggaagcaggg cctaggagac acgtgaaaca atgacattat ccagagtcag     1620

atgaggctgc agtccagggt tgaaattatc acagaataag gattctgggc aaggttactg     1680

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aatgatcagt aaagatttaa gggttgagat tttttaagagg caagagctga aagcagaaga    1860

catgatcatt agccataaga aactcaaagg aggaagacat aattagggaa agaagtctat     1920

ttgatgaata tgtgtgtgta aggtatgttc tgctttcttg attcaaaaat gaagcaggca     1980

ttgtctagct cttaggtgaa gggagtctct gcttttgaag aatggcacag gtaggacaga     2040

agtatcatcc ctaccccta actaatctgt tattaaagct acaaattctt cacacc          2096
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<210> 1953

<211> 2707

<212> DNA

<213> Homo sapiens

<400> 1953

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tttgctgtac aaggaggaaa agtgggaaga aagcatggca taaaaagggg gaggagaccc    180

agcataagaa gcccagctca gcgggccaga ggaccctgga tccatgagag taagcatccg    240

gcctttgcaa agcaacagat aaacttggag atgcccaact ccagagcgac aacagagtta    300

gcctgggtct gcagctccac ctcaagaaaa aagaagtggg cagggtccct gactctttcc    360

actgctccac tgagcccccc accatccttg gtgcactgtg aagattgttc ttgcctgcct    420

ggctgccatt cgggtgacct ctacaatctg gccccagcag aaagaacttg ctagcagcat    480

atcaatagca gagatggaag tctggtcata tggtgcccac atctattgaa gtaaacatgc    540

tgataccaga tatccctggc tctctgtctt caaggcacat ggtagaacta tacttcctag    600

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catttaattg ttaatacata ttctagtgct ctttccctct gtcatcacaa ctgacaatgt    720

ttcagacagt gacttctcca acaggctggt tccagagtga aaatagagcc cagtagagtc    780

tgtagctgat gcaatatgga catgtagggt gagtgagaaa atgctttgt tgggttaagc     840

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gagttttttc cctgttatat cttaatatta gatagcagca gcctctggaa atagttcttt   1020

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ctatgaagta cttatttagt ccataatatc ctcagtaaat ggtagttagc cttactaaca   1260

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taaaaatccc aactttctgc tgtaaatttg aactaatcca gaacaggcta atccattgca   1380

atggcctatt catccttctt cttagagttt agctatcagt catcttgttg ctgagaacaa   1440

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aagaattta g ttctgtaagg cttgttgacc catctgacag gaattcccgt accaagtggt   1740

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atgtaaagta tattatccta tgtgaaatca agggacagaa aataactgga aggaaatatt   1860

ccaaatgtt agcagtagtt tctcccggag aatgtgatgt atacatttgg atgggtgata    1920

tataaagtac ttttcataga tctgggcaag agatatttta gagggctcca cataccacaa   1980

tcacccacaa ataaatgtat taaagagcac acagatgcct ttatcactca ggatgtggca   2040

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aagataacat aaatgcaata gattctttta caacaaagtg tcatttctca ataatgccaa   2340

gaatcctttt tcatgcttct cttcttgttc acattcctgg ttcccatgct actcaattaa   2400

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ttggtaacta ggtggatata gaacatttac aatgtgaata gtgttatctc tataaaaaca   2580

agatttaatt aaaatgttca tatatgaaat gaaattttgg catatattaa ttataacttg   2640

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<210> 1954

<211> 1830

<212> DNA

<213> Homo sapiens
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<400> 1954

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tttggcttgt aagagtaccc cctgggaatg gcatctacat caattttact gtccttcaaa   180

cagaaccaat atatgatttc attactgtat gggatggacc agaccaaaat tcacctcaga   240

tcggtcagtt cagtggcaat accgctttgg aatcagtcta cagtacttca aatcagattc   300

taatcaaatt ccacagtgat ttcacaacaa gtggcttttt tgtgctcagt tatcacgcct   360

atcaactaag ggtgtgccaa cctccaccac ctgtgcccaa tgctgaaatt ttgacggaag   420

atgatgaatt tgaaataggt gatattatta ggtatcagtg tcttccagga tttacttttag   480

ttggtaatgc aattctgacg tgcagattag gagaacgact gcagatggat ggagcacctc   540

cagtttgtca agtgctctgt cctgccaatg aattacggct agattctact ggagtcatat   600

tgagccctgg atatcctgac agttacccaa atcttcaaat gtgtgcatgg agcatttcag   660

tggaaaaggg ttataatatc accatgtttg tagaattctt ccagacagaa aaggaatttg   720

atgttcttca ggtgtatgat ggaccaaata ttcaaagtcc agtgcttatt tccctcagtg   780

gggattattc atctgctttt aatataacaa gcaatggtca tgaagtattt cttcagtggt   840

cagcagatca tggcaataac aaaaaaggct tccggataag atatatagct ttctactgta   900

gtacaccaga atccccacct catggatata ttatcagtca gacaggtggg cagcttaaca   960

gtgtggtccg ttgggcctgt gatcgaggat tccgacttgt tggaaaaagc agtgctgtgt  1020

gcagaaagtc ttcctatggg tatcatgcat gggatgcgcc agtccctgcc tgtcaaggtg  1080
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ataacgaaac tccatctcaa aaaacaaaac                                   1830
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<210> 1955

<211> 1940

<212> DNA

<213> Homo sapiens

<400> 1955

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gctaccggca aaacccagac gacatcgcct gcacctttg tggccaggat gagtggtccc 180
cggagcgaag cacacgctgc ttccgccgca ggtctcggtt cctggcatgg ggcgagccgg 240
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tgctggccta cttcatcacc tgggtctcct ttgtgcccct cctggccaat gtgcaggtgg 900
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tcctcaggcc cgccgtgcag atgggcgccc tcctgctctg tgtcctgggc atcctggctg    960

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aggggaaaca tgagtgaccc aaccctgtga tctcagcccc ggtgaaccca gacttagctg    1140

cgatccccccc caagccagca atgacccgtg tctcgctaca gagaccctcc cgctctaggt   1200

tctgaccccca ggttgtctcc tgaccctgac cccacagtaa gccctaggcc tggagcacgt   1260

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tcattccaag gcagcccagc cggagagaag gggcacaggc cacacatctg tcccataaaa    1920

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<210> 1956

<211> 1958

<212> DNA

<213> Homo sapiens

<400> 1956

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aggtgtcact attgaacctg gagctgatct tttgtatgat gtaccttcct tacaggctat    180

atactttgaa aatttgcaga actcttcaaa tgatttgggt gatcattcta tgaaagaaag    240

ggattggaag tcatcctctc acaacactgt gaatgaggaa ctgccccata attgcataga    300

gcaaccccag caaaatgatg agtcctcttc caaagtcaga actagttcag atatgaacag    360

gagaaaaagt attaaagatc atctaaaaaa tgccatgact ggaaatgcga aggcccagac    420

accaatattt tctagaagta aacagctcaa agacactctc ctatctgagg aaattaatgt    480

tgctaagaaa acaattgagt catcatcaaa tgaccttggt cctttttatt cattacccag    540

caaagtgaga gacctttatg cccaattcaa gggaattgaa aaattatatg gtaatgcttt    600
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tcagcccctt ccattcctac ctgtcctgct accactgaac ctctttcctt ccctcacagt    780

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caataactta cctgatgcta ttgactacac ccttcttgaa attcttgttt ctggatgtcc   1140

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acattcaaag ccattctggg cctcatgagg gccgtgggtt ggacaaactt gtttttaagtg  1680

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gggtcagccc catcaacctt ccacttcgta agtttctgg aactcctgtt aggatcttat    1860

gaatgatatg aaaacttggg ttcttgcaga gaagacaatc aggttggaga agcagaacta   1920

caggaaacaa agtctaataa aagactctac aagaatcc                           1958
```

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<210> 1957
<211> 3131
<212> DNA
<213> Homo sapiens

<400> 1957
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agggaggaaa gagcccttga ggaaactaga cagtttgtgg actttgcctc ttgagatagc   300
```

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<210> 1958

<211> 3563

<212> DNA

<213> Homo sapiens

<400> 1958

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<210> 1959

<211> 2181

<212> DNA

<213> Homo sapiens

<400> 1959

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atctgaaaaa tgtagaacaa ggaaagaaaa tgttcaatcc atcaaaacaa acagagatac    180

aatctcaccc cccttggttt ttgtaccact gggtttaggg gaaaagaaaa caagagactg    240

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cacagggtca cagggcttga gagaccccgg accctcaagt gcaaggccct ggtggggcag    360

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<210> 1960

<211> 2287

<212> DNA

<213> Homo sapiens

<400> 1960

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gacccatgac ctcaggtgcc atcaggagaa cttaaacctg aagaagggat cagctatccc    360

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ggaacagtgc actacaggac cacgttgcag gaatcgtgcc ttggattcac cacagttggc    480

tgaaactggt agcccaagac aagtggacca gccagaagga cccaggccat ccaacccagc    540

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<210> 1961

<211> 2534

<212> DNA

<213> Homo sapiens

<400> 1961

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<210> 1962

<211> 1778

<212> DNA

<213> Homo sapiens

<400> 1962

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<210> 1964

<211> 2624

<212> DNA

<213> Homo sapiens

<400> 1964

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<210> 1965

<211> 2348

<212> DNA

<213> Homo sapiens

<400> 1965

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<210> 1966

<211> 2139

<212> DNA

<213> Homo sapiens

<400> 1966

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<210> 1967

<211> 2386

<212> DNA

<213> Homo sapiens

<400> 1967

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<210> 1968

<211> 2690

<212> DNA

<213> Homo sapiens

<400> 1968

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<210> 1969

<211> 1603

<212> DNA

<213> Homo sapiens

<400> 1969

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cactaggact ttgtgtgggc tgattgcagg tatcagatcc gggattatac aggtactgtt   1260

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aaacttttat tttcaagctt ttgttggtgt tgcaagtgta aatctgtttt ataaaatgtt   2160

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<210> 1971

<211> 1924

<212> DNA

<213> Homo sapiens

<400> 1971

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tggagacatt tagaagttgt tcttaatcag agtgaagctt gtgcttcgga aagtcaacct    420

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tgtaatccca gctgcttggg aggctgaggc aggagaatca cttgaaccct ggaggtggcg   1860

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<210> 1972

<211> 1725

<212> DNA

<213> Homo sapiens

<400> 1972

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<210> 1973

<211> 2146

<212> DNA

<213> Homo sapiens

<400> 1973

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<210> 1974

<211> 3584

<212> DNA

<213> Homo sapiens

<400> 1974

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<212> DNA

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<213> Homo sapiens

<400> 1975

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<211> 2346

<212> DNA

<213> Homo sapiens

<400> 1976

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<212> DNA
<213> Homo sapiens

<400> 1977

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<212> DNA

<213> Homo sapiens

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<210> 1979

<211> 1826

<212> DNA

<213> Homo sapiens

<400> 1979

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<213> Homo sapiens

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<210> 1981

<211> 2303

<212> DNA

<213> Homo sapiens

<400> 1981

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tggaaagaaa atgactactt actaatatat tttgggaaaa atatttgtaa gaatattaat 420

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ctcttcagtc attgaatatg tcactgcaaa atcaattgga ggagtcacta aagagccagg   2160

aattactgca gagtaaaaat gaagagctgt taaaagtgat tgaaaatcag aaagatgaaa   2220

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<210> 1982

<211> 2389

<212> DNA

<213> Homo sapiens

<400> 1982

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gtgatggccg ccgtccccgt gcacccagt gatggccgcc gtccccgtgc accccagtga    240
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cgccgtcccc gtgcacccca gtgatggccg ccgtccccgt gcaccccagt gatggccgcc 360

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tgcaaggaag gagggtccga ggcaactccg ctgttgcaca tttagggacc cctgaactta 720

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<210> 1983
<211> 2285
<212> DNA
<213> Homo sapiens

<400> 1983

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ctcatttgat tcatattgcc aaactgaact ctcttgtttt cttgcaagat gaaaggagac   240

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tgcttttgga aattgcactg atgaaaacat cccactcaag atgcactacc tccctgttat   360

ttatggcatt atcttcctcg tgggatttcc aggcaatgca gtagtgatat ccacttacat   420

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<210> 1984

<211> 2612

<212> DNA

<213> Homo sapiens

<400> 1984

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gttgacattt agatattgag gtaacaggac atcttggagt tgaaatttcc agaatctttg   180

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caaagagctc caggacactc acagtactta gacaatgatg accttcaagc cactgccctt   360

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<210> 1985

<211> 2924

<212> DNA

<213> Homo sapiens

<400> 1985

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tacagacata gcaagccttg tcctgactat gtttcacatt tgtgaattag gtatggccac    360

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<210> 1986

<211> 2312

<212> DNA

<213> Homo sapiens

<400> 1986

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gtatttgcct gggccaggaa aggataagaa atcctgtcat gtgaagacag cttgagaggc   360

ttgagaaaag tggggctggg gagaagcagg cttgtcagac tccaccccctg ttgatgatca   420

ttcctgggaa ggggtttctc gttctatgca atcctaaagg acgaaactca cccatgggag   480

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gctgctgcca ttaatgctgt gctcactatc ttgtccagga ttttaaggat gtcagactgc   2280

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<210> 1987

<211> 2638

<212> DNA

<213> Homo sapiens

<400> 1987

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gaccacagaa aaatcaactg ataaacagca agaaatcacc atcagggact attcagatct    360

taaaagactt cggtgccttt tgaacgtcca atcaagcaaa caacagcttc cagccattaa    420

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aattaaacct ctcttctttc taaattacct agtctcaggt atttctttgt agtagtgcaa   2580

gaacggattc atacactctt taaatgtgat aaacaaaata aagtacaatc cttatttc     2638
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<210> 1988

<211> 2283

<212> DNA

<213> Homo sapiens

<400> 1988

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tgactccgcg tgctctgccc cacaccacgt ggcatcccgg cggcctcagt gctgctctca    960

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<210> 1989

<211> 2048

<212> DNA

<213> Homo sapiens

<400> 1989

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cggggaagta gtgagaaaca atcagagtac agagtatttt aatctttagg ggatcaagat    180

gtcagatgca aacaaagctg ccattgcagc agaaagggaa gctctgaact tgaagttacc    240

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aaaatacaga agatccaagg agcagcagca gaaaattaat cagttagtaa ttgatggagc    360

caaaagaaat ttagacagaa cactgggtaa aagaacacct ctattaccac cacctgatta    420

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<210> 1990

<211> 2047

<212> DNA

<213> Homo sapiens

<400> 1990

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<210> 1991

<211> 2836

<212> DNA

<213> Homo sapiens

<400> 1991

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<210> 1992

<211> 2454

<212> DNA

<213> Homo sapiens

<400> 1992

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<210> 1994

<211> 1623

<212> DNA

<213> Homo sapiens

<400> 1994

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<210> 1995

<211> 2129

<212> DNA

<213> Homo sapiens

<400> 1995

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<210> 1996

<211> 1624

<212> DNA

<213> Homo sapiens

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<210> 1997

<211> 3679

<212> DNA

<213> Homo sapiens

<400> 1997

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<211> 1897

<212> DNA

<213> Homo sapiens

<400> 1998

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<210> 1999

<211> 2258

<212> DNA

<213> Homo sapiens

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<211> 2704

<212> DNA

<213> Homo sapiens

<400> 2000

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<211> 2277
<212> DNA
<213> Homo sapiens

<400> 2001
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<210> 2002

<211> 2276

<212> DNA

<213> Homo sapiens

<400> 2002

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<210> 2003
<211> 2076
<212> DNA
<213> Homo sapiens

<400> 2003

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gatcaagtcg gggcacttag ggtactcatc agctgggata tttattgttt ctatgcgttg  1860

ggaacatttc aagttctgtc ttctatctat tttgaaatac acaatccatt gttattaact  1920

gtagtcactg tagtctgcta tcaaatatta gaactactcc ttctatctaa ctgtatgttt  1980

gtacccattc actaacttca ttccccccca ccctctattt ataattttat aacagacaat  2040

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<210> 2004

<211> 2525

<212> DNA

<213> Homo sapiens

<400> 2004

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aaagtaaaac tgaacaggtc cttctgccca cctgcagtcc ccaaggaaag aacacatgtt   720

acgttcattg ccaataatag gtccttcagt acttgttgaa tgaagaatac ttgtgttttt   780

ccactggcca accaaggtgg atcctgaaag tggaacccgg agttctctaa taactaaatt   840


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tgctttatgt aaattctctc tcctggattt gtgtgacgta gcagggttag aatggtgaga  1020

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<210> 2005

<211> 3574

<212> DNA

<213> Homo sapiens

<400> 2005

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gtctggataa agaacttgct tctggccttc agatgacagc tatggtggaa tatcatcctg   360

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ttcctctaat tgggttgatt ccatcctgtc aattggaaat tgaatcagta gttaattttg   480

gcacactggt tgccaatagt aaagtatatt ctaaagagat tactatcact aaccatggca   540

aagctccagg catatttaag gcagaatacc acggccaatt acccatcctc attttttccaa   600

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<400> 2023

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<212> DNA

<213> Homo sapiens

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<211> 3361

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 4050

<212> DNA

<213> Homo sapiens

<400> 2032

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<211> 3663

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 2034

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

<400> 2036

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aaagggaaat ctccagaaac atccagcatc ataattcatg cagcctggtg aaaaatgcgg 660

atacagaatt ggaggaaata gcagcatggg caccaccctg agaatgagcc taggggaacc 720

agagagaaag cctttaccac accaagccac tctgttctca cggttctcag gatattttct 780

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ccaggcatca tggtcacctg ccaccacgcc ctcctgcaac caggccggca ctgaccttgc 960

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<210> 2044

<211> 1537

<212> DNA

<213> Homo sapiens

<400> 2044

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gggcctggtg aagccttcgg agaccttgtc cctcacctgc agtgtctctg gtgcctccat   180

gaccactagt gaatactact gggcctggat acgccaggcc cccgggaagg gactggaatg   240

gattggaaat atctttttata ctggcagaac tttctacaac ccgtccctca agagtcgact   300

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acagaacgtg accgccagaa acttcccacc tagccaggat gcctccgggg acctgtacac    660

cacgagcagc cagctgaccc tgccggccac acagtgccca gacggcaagt ccgtgacatg    720
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catcacaaaa tccggaaaca cattccggcc cgaggtccac ctgctgccgc cgccgtcgga    1140

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tgtcaatgtg tctgttgtca tggcggaggt ggacggcacc tgctactgag ccgcccgcct    1500

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<210> 2045

<211> 4845

<212> DNA

<213> Homo sapiens

<400> 2045

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gcactagatg ctgcagaaac gggccataca aatcaggtac aacctgagga catgctagaa    180

actggatatg tcattacgga ccaaactcgg gatgaaatga gcattgaaag tttcttaggt    240

agatcaagct gcattgctga gattcatacc gatttggacc atactggata caatgaacct    300

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tgtgaaatgt ttacatatct tagatttgat tcagaaataa ctatagtggt atcagtggct    420

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tattatatgt tctacgatgg gtacgaagat gataatggta ccacctatgg ggctgctgtt    660

actaatgaca tgggaacgct ttgtgtgcgc atagtgactg agcaacagaa gaatgaggtt    720

aagataacca gtagagtcta tcacaaggct aaacacatca gtgcatggtg tccaagacca    780

ccaagggcgg ttgcatatca acacacatat agcccaaatt ttgtgccacc aacaggagca    840
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gaaccagaaa acttaaatga ttcagtccta attagttact ccagtgatct tgtcatttac   1020

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aataaaatat ccaaattcat tgattggctc aaatctatgt tacctcaagc cagattaaaa   1740

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agacttgcaa cacagaaaca acagcaggag tatattgaca cccttactct aatgctagat   1860

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<213> Homo sapiens

<400> 2046

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<210> 2051

<211> 1766

<212> DNA

<213> Homo sapiens

<400> 2051

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gagtaaaaga tactacggcg attcagtgac gggccgcgtc agcatttcga gagacagcgc   360

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ttaagattgg aagtttgtgt cttttgctgg atattggaaa ttgaatgtaa tggcaacaga    180

atttataaag agttgctgtg gaggatgttt ctatggtgag acagaaaaac acaacttttc    240

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<210> 2053

<211> 2079

<212> DNA

<213> Homo sapiens

<400> 2053

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cgttgcccac aggaatcact ctgacaaccc tcactttct aacagacccc tggcgggcag     180

aggactaatt ctctttttc acattctttc tgtgtttttc acagatgaga gagagagcag     240
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ccttataagt atatgatttg caaatatttt ctcttaattt cccatatttc taagagacag     2040

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<210> 2054

<211> 1913

<212> DNA

<213> Homo sapiens

<400> 2054

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<210> 2055

<211> 2751

<212> DNA

<213> Homo sapiens

<400> 2055

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<210> 2056

<211> 2816

<212> DNA

<213> Homo sapiens

<400> 2056

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<211> 1766

<212> DNA

<213> Homo sapiens

<400> 2057

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<211> 3359

<212> DNA

<213> Homo sapiens

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<210> 2059

<211> 1692

<212> DNA

<213> Homo sapiens

<400> 2059

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<211> 2269

<212> DNA

<213> Homo sapiens

<400> 2060

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<211> 2395

<212> DNA

<213> Homo sapiens

<400> 2061

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<211> 4148

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<210> 2066

<211> 2573

<212> DNA

<213> Homo sapiens

<400> 2066

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tcctccccac ggggtctgag caagtcctcc ccatggggcc tgagcaaatc ctccccacgg    240

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tcctccccat ggggtctgag caaatccttc ctatgccgtc tgagcaagtc ctccccatgg    360

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<210> 2067

<211> 2563

<212> DNA

<213> Homo sapiens

<400> 2067

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gaggaaaatg tggccacatg tatgttttca acttcttatt tccaagtatt tggctttttc   480

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gaagcaattt attatgcatg catgagaagc ttctaggtat ttactgacca attgcatgcc   2460

cattacatat cctttttgta ttttagagat aataatcatc ttatattgtt tacctcctag   2520

cccagttttt ggcacacttg aaagtactac aaattgtctt tat                     2563
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<210> 2068

<211> 3219

<212> DNA

<213> Homo sapiens

<400> 2068

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ggtgtgtgta ccaagcacta tcctggctga atctcatcag attggatggc aggaagtaaa   180

acttcagagt ccatgtttcc aatgccgcag ctaccctgtc tctcatgaat gaggagctgg   240

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<210> 2069

<211> 3341

<212> DNA

<213> Homo sapiens


<400> 2069

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<211> 2517

<212> DNA

<213> Homo sapiens

<400> 2070

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<211> 2564

<212> DNA

<213> Homo sapiens

<400> 2071

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<211> 2495

<212> DNA

<213> Homo sapiens

<400> 2072

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<210> 2073

<211> 2624

<212> DNA

<213> Homo sapiens

<400> 2073

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<210> 2074

<211> 2380

<212> DNA

<213> Homo sapiens

<400> 2074

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<210> 2075

<211> 2658

<212> DNA

<213> Homo sapiens

<400> 2075

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cggtgctaga ggaattaaag acacacacac acagaaatat agaggtgtga agtgggaaat 180

cagaaaaggt ttggagctga gagccccgaa cagagactta cccacatatt tattaacagc 240

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gccatttgat tcccttcagt caaaggtcct ggaagaggtg tatgagcgag ccctaatgtg    2580

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gatcagttgt tcatctgt                                                   2658
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<210> 2076

<211> 2239

<212> DNA

<213> Homo sapiens

<400> 2076

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tggagtaaga gccgagcacc ggcgcagcct gcgggactgg cgctcaccgg gcctctcaat    120

ccccagacct tgccactgca gttggagctg gaggaggaag aggaggaagc tggggatcga    180

aaagagggag gggatgaaca gcaggaggcg ccccccggcg aagagctgga gcccaggacc    240

cgcgtggggg ccgccgacgg actggtcctg gacgtgctgg gtcagcggcg cccgtccctc    300

gccaagagac aagtcttctg ctccgtgtac tgcgtggaga gcgacctgcc cgaggccccc    360
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gcctcggagc agctctcgcc gcccgcgtcg ccacctgggg ctccgccagt gttgaaccct    420

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gttgtctata acttaacgca tgaagactcc atcaagtata agtacttctt ggaacttggc    840

cgtattgatt ccagcaccaa gccatgtcct cagtgcaagc actttacaac cttcaagaaa    900

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acctattata atctgtggcc ccagcagtat aattctttta tctttcaaat gttataattg   1980

caaaaaatct caatgtccaa aagggaatga gtgaaactaa attaatgaga agaatattaa   2040

gttactgaag tgtatatgca tagggggcgtg aatgtgtgtg tatataaata tgtattaaaa   2100

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taaagtcaat gtagacaac                                                2239
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<210> 2077

<211> 1670

<212> DNA

<213> Homo sapiens

<400> 2077

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<210> 2078

<211> 2899

<212> DNA

<213> Homo sapiens

<400> 2078

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atgttttaca ataggtaata ataaaaacag tctgtgcaga tgcactggca ctgacggcca   180

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<210> 2079

<211> 1866

<212> DNA

<213> Homo sapiens

<400> 2079

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cctctccatc ggccccgact tccagaaggg cctgaaggat ggaactatct tatgcacact   240
catgaacaag ctacagccgg gctccgtccc caagatcaac cgctccatgc agaactggca   300

ccagctagaa aacctgtcca acttcatcaa ggccatggtc agctacggca tgaaccctgt   360
ggacctgttc gaggccaacg acctgtttga gagtgggaac atgacgcagg tgcaggtgtc   420
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tgcctacggc acgagaaggc atctctatga ccccaagaac catatcctgc cccccatgga   540
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ggctcccggg acccggcggc acatctatga taccaagctg ggaaccgaca agtgtgacaa    660

ctcctccatg tccctgcaga tgggctacac gcaggcgcc aaccagagcg gccaggtctt     720

cggcctgggc cggcagatat atgaccccaa gtactgcccg caaggcacag tggccgatgg    780

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<210> 2080

<211> 2368

<212> DNA

<213> Homo sapiens

<400> 2080

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caatgggaaa tgtggtcact tgtgaattgt ctgtggagaa agtttgtgat gaggatggtg    180

aggcaaaaga gctggattat caagccacac ttttggagga tcaagctcca gcacatttcc    240

acagaaactt cccagagcag gtcttccagg atctccagag gaagtcccca gagtcagaga    300
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ttctgagtct gcacctgctg gttgaagaac tgagacttaa tccagatgga gtggaaactg   360

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ttgtgaaatt gaaactgtaa aagtagatgg ttgaaagtac tggtatgttg ctctgtatgg  2280

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<210> 2081

<211> 2295

<212> DNA

<213> Homo sapiens

<400> 2081

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gggcgggctg ggagtgcccg gcggcgggtc ctcagcttcg agccgaggtg cagtgagctg     180

gtggggggac cgcgaggcga gcgcgggagc ctgggcggcg agccgggtgt gagctgcctg     240

aaaatgcact cggatgccgc cgctgtcaat tttcagctga actctcatct ctcaacactg     300

gcaaatattc ataagatcta ccacaccctt aataagctgg aagtctgcgg tcttgcagtt     360

cttcagactg ctttaataaa gtgatgccac caaggaaaaa gagaagacct gcctctggag     420

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atatgtgtat aaaaggaaaa aggttcacct agagattat tctgaaaaat gtattgtaaa   1920

aataattttg tggcatttct agtccctttt tttgaatgaa ccaattatac tttatttggt   1980

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attaacctta ctgtttaaga ggccagcttc tggaaggagg taggagtcat aacttttag   2100

aggcatatgc caaatatcat ttggtatact taacaatatt agtgttttaa aatgatgagt   2160

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<210> 2082

<211> 3038

<212> DNA

<213> Homo sapiens

<400> 2082

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agccccaccc agtccggggg gactgggagc agttccaaga ccaccccacc cctttttgta   3000

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<210> 2083

<211> 1418

<212> DNA

<213> Homo sapiens

<400> 2083

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ggggaaagag gcacccataa ttctattacc cagagtcaaa aacatctttt aacacttttt     180
ctgtgcatta aaaacaaaaa aagaaaatta tacctccatc atttctggtg tgacctgcat     240
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<210> 2084

<211> 2612

<212> DNA

<213> Homo sapiens

<400> 2084

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<210> 2085

<211> 1894

<212> DNA

<213> Homo sapiens

<400> 2085

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cagaacacaa agcgtgaatc cggaagaaaa gttcaatctg gaaacatcaa tgctgccaag    180

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cacagaacca gcagagtctc cccttttcct gagccagagt gccaggaaca ctgtggacgt   1740
ctttgttcag aagggatcag gttgggggggc agcccccagt ccctttctgt cccagctcag   1800
ttttccaaaa gacactgaca tgtaattctt ctctattgta aggtttccat ttagtttgct   1860
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<210> 2086
<211> 1963
<212> DNA
<213> Homo sapiens

<400> 2086
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cccgagccga gcgtcccgtc tcctagtaac cagccgctag ccccctttttc cacgactcat   180
ttcttaatct ctgcctgagg ctgccgcacc tggatggaac gcgcatgcgc aaggctgtct   240
ctcgcagccc cgccttccct cagcttgaaa cacctgctgc ttcgcggcgg tggctttgtg   300
ccactttttcc cagggcttgg gcatcattct ggacccatgt tcggtgaacc ggttactctc   360
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ggtccagccc tcccgctgca gcctgcaggg agcgagccgg cctgtcccga tgacatagac   480
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ggcaacctaa atgccagtcc aaagaggccc ccaatagact tgttcaccct tcatgtcctc   660
aactctgggg aagttaagta atcaagttga agaaacactt ccactactta aaaagcctct   720
aaagagagca atcactacac ttatggctgg gattttgcgc ttagtagttc aatggccccc   780
aggcagacta cagaccgtga caaaaggtgt ggagtctctt atttgtacag attggattcg   840
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tcacaaattc accagatcaa gaattccaga aaaagcgttt caggcctcac ctgaagatca    900

tgaaaaatac ggtgggggatc cacagaaccc tcataaactg catattgtta ccagaataaa   960

aagtacaaga agacgtccat attgggaaaa agatataata aagatgcttg gattagaaaa   1020

agcacatacc cctcaagttc acaagaatat cccttcagtg aatgcaaaat tgaaagtagt   1080

taagcatttg ataagaatca agcccttgaa gttgccacaa ggacttccaa cagaggagaa   1140

catgtctaac acgtgcctca aaagcactgg ggagttagta gtgcagtggc atctgaaacc   1200

tgtggagcag aaagcacatg agtcctaatg ccccagcagc ttccgattgg aaaatgcaaa   1260

ttgttttat ttaaagatga cggagtcttg ctctgtcacc caggatggag tgtaatgcca    1320

cggtttcagc ttactgcaat ctctctgcct cctggcttca agcatttctc ctgcctcagc   1380

ctcccgagta gctgggacca cagaaaccac aacaaaggtg cttgcccatg gctcctcgct   1440

tccctctgcc tcatgactga tgccaattat tcccccttgtg gcccccctgtg gtgtgacatg  1500

tactccctct ccggggatcc gaaatgaaac caatttctac aacataggaa tgatttcggc   1560

atgtctagga gagtcagaga aaagacggga gggaaatggg ggagaaagaa aaacgtgaga   1620

gaaccttcta cttcctgaaa ggcaccatga ctctggaatg ttacctgtaa ttaagaatgt   1680

cagaagaacc gagcctccat tctaaagttt ctgtggtgaa gtcatctgta tttcctagga   1740

aacttgaaga ggaacagact gaaacttgac aaaactcgga agagacttac aagaatcaga   1800

agtgcacaca tggtgccata tttggaagtc atgaagaaaa actgaacagc attaccgagg   1860

aaaaacttct tactcctaaa tatgcaacgc tgtcagtaag aagcacatta aggctaaggg   1920

ttactaataa tatttaaata aatgtggcca ttatgcttct agg               1963
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<210> 2087

<211> 2700

<212> DNA

<213> Homo sapiens

<400> 2087

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caggccttcg tggagcactg gaagggcatc acgcactact acatcgagag cacaggtgcg   180

gcctggccct ccccagccca gggaccctgg agggagcggg gaggaaggag tgtgcagagt   240

gtcaccattc aggtgtcctg ggaaaggtaa cctgcccagt cgttcagaat tggagccgag   300

ttcacggaga cagagaacca gacagacaga agacccagag ccctgggcca ctccactcct   360

gatgatttag ccgccggtcc cactctgacc ttttggaaag aggctgtgtg aggaaggagt   420

agcctggttg gggtctcact ggcctgactc tgcaaggaag aggtggctgc acttccccca   480

gcttccagct ccagaccttc aggccccagg tgcttgtgcc taggatttaa tgatcaaaag   540
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aaaagaattt aataaattcc cctttcccct gagccagctt aggggcaatg tccttgtaga   600

gatctggggt aggaggagaa cgaaaaccaa ggtgggtaac atgcctgggt ccctctctcc   660

aagctgacac cccaaagagc caaagccttg gcacctggtc ccatcaggac cgctcactga   720

ggggatggca tctgagtggc tgctctgcag tcatgaggct gccatgggtg gatacggact   780

ggttgccagg taaccatatc ctgcatccct cacttttccc ttcctggagt tcatactggg   840

gcttgatccc agcccacacc tttcctacag gctttctttc cagcccgggc cagcccagga   900

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gggacaacca ggaaggtctc cagactttgc ctcatgttcc ctgggggggga aaagcgcacc  1140

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gctcagtaag atcagatcag aactggctga aattcacctg gggcttcccc catccagccc  1260

tttcatttcc agaatggtcc ctagaccaga agggttggaa gtgcgtgggg caggccgccc  1320

tactcaagct cctgttcctt aaaggaaagc taggggggtgc tccaagtcta gccctgaagc  1380

accagaactt tctttaaaac acacactgag actctgactg caaaagcccc cactaagtag  1440

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cagatgtttt tttctgcttt gtgaaaaaca gaggcttgcc ttctctgagt gtcagtgggg  1560

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gaaggacttt tgtcttctta aatattgaag cattcactgt aaacttccat ttcccagttg  1860

ccagcagctg tcttccccca cctctcccag acaggacctc ccctttctgg gctttggcag  1920

gagagggtga agtttcaag ccggggtgcc cctctttacc ctactcaccc ttgtttccca  1980

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<210> 2088

<211> 2780

<212> DNA

<213> Homo sapiens

<400> 2088

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cggctttccc cggcgctggc tgggctcagc ggcccctgag cccaagcgac acacgccccg     240

cggtccccga tccggcccct gggagagccg cgccgttctg gaacccggga gcccccaact     300

tcgcgccaag ttcggagccg ccttctgagg gagacatgaa aaagatgagc aggaatgttt     360

tgctacaaat ggaggaggag gaggacgacg acgatgggga tatcggaaga atttaatgga     420

aaacctgact ccctcttttt taatgatggc cagcgaagaa ttgactttgt tctagtatat     480

gaggatgaaa gcagaaaaga gaccaataaa aagggtacaa atgaaaaaca aaggaggaaa     540

agacaagcat acgaatctaa ccttatctgt catggcctgc agttagaagc aacaagatca     600

gtattggatg acaagcttgt atttgtaaaa gtacacgcac catgggaggt gttatgtacg     660

tatgctgaga taatgcacat caaattgcct ctgaaaccca atgatctgaa aaaccggtcc     720

tcagcctttg gtacactcaa ctggttacc aaagtcctca gtgtagacga aagcatcatc     780

aagccagagc aagagttttt cactgcccca tttgagaaga accggatgaa tgattttttac     840

atagttgata gagatgcttt cttcaatcca gccaccagaa gccgcattgt ttacttcatc     900

ctctctcggg tcaagtatca agtgataaac aatgttagca gtttgggat caacagactt     960

gtaaactctg ggatctacaa ggcagctttc ccactccatg attgcaaatt ccgccgtcag    1020

tcagaggatc ccagctgccc taatgaacgg tgccttctgt acagagaatg ggctcatcct    1080

cgaagcatat acaaaaagca gcccttggat cttatcagga aatactatgg agagaagatt    1140

ggaatctact ttgcttggct gggctattac actcagatgc ttctcctggc cgcagttgta    1200

ggagtggctt gctttctcta tggatatctt aaccaagata actgtacatg gagcaaagaa    1260

gtttgtcatc ctgatattgg tggcaagatc ataatgtgtc ctcagtgtga taggctttgt    1320

ccattctgga aactcaatat tacttgcgag tcctcaaaga aattgtgcat cttcgacagt    1380

tttggaaccc tggtctttgc agtatttatg ggagtatggg atccatagaa agcaacttct    1440

cattccttca agtttgatca tgagactaca gcagttcagt cacatcttca gactccattt    1500

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ttctcaaagt catccatgag gttaccttgt ttttggagtt ttggaagcga cgccaggcag    1620

aacttgagta tgaatgggat actgttgagt tacagcagga agaacaagcc cgaccagaat    1680
```

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acccagttta ttggttggga aaatacagaa atgaagagtg tgacccaggt ggctgtcttc  2220

ttgaactgac aactcagctg acaataatca tgggaggaaa agcaatctgg aataacatac  2280

aagaagtatt attgccctgg atcatgaatc taattgggcg atttcacaga gtttctggat  2340

cagaaaagat aaccccacga tgggaacagg actaccatct gcagcctatg ggcaaactgg  2400

gattattta  tgaatatctt gaaatgatta ttcagtttgg gttcgtcacc ttatttgtgg   2460

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acgcatggaa actgaccacc cagtttagac gcctggtacc agagaaagcc caagacattg  2580

gagcatggca gcccatcatg caaggaatag caattctggc tgtggtgacc aatgccatga  2640

tcatagcttt cacgtcggac atgatccccc gcctagtgta ctactggtcc ttctccgtcc  2700

ctccctacgg ggaccacact tcctacacca tggaagggta catcaacaac actctctcca  2760

tcttcaaagt cgcagacttc                                                2780
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<210> 2089

<211> 2348

<212> DNA

<213> Homo sapiens

<400> 2089

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gcctgcaccc tgacacaggc cagataagag tcccggctgc attatcagag cccggcaggg  180

caccggcctc cctgcaccag aaggaagact cggggcgcag caggtcctca aggcgatctt  240

cccagagagc gggaccagcg gctggtggcc agtgtggatg gaatttgcag agccctagct  300

cgagtccggg agtcccgggc cagatgggag cagacgcttg ctggcggcaa tagggaaagt  360

gaggcagctg caaggagggc ggcgggactg cactcgagtg tccagacctg ctcgatggtg  420

agtgtgaagt gactgctccc catgtgtgcc gtgacgccgc cttgtgtgga cagacttctg  480

gagctggggg tgacaggagg aggcagccgt tcctcacagg ccacctggag ctcccaaggc  540
```

```
cggaggaggg aacctgggtt gaggctgaga tgggatggcg gtatcgtgct gtgtggcctt    600

aggcaagtta tttgccctct gcaggcctcc atttgtccgt ttctaaaaca gtggttgaac    660

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ggtaagtatt attggtgtcc ccattgtacc ctgaggaaac agcagctggg cgaagtgaag    840

tgacttgctg aggtcacaca gccggtcagt ggcagaaacg aaaaaagacc taggtttttc    900

cgacttgctt tggctaaact ctcctgtaca cccccagtat tctgtattct gtgctccatg    960

gttctgcaat tatcccaagc agcaggggtg aaggagaagg aggtatggat ggagcattac   1020

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gaaacgcata cagcgctttc cacatgcctc ccctgggggg aatcacatat taatattatc   1440

gtaagctatt tgcatatata tccctgcagc tgtggctggc agcagccaag agataagaga   1500

cagataaagt cagctcgtgt ctccctggca cggaaaggga gggtgcaggt tacactcaag   1560

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ctgagagtaa gatcaagttt ggagtgaggc tgggcgcggt ggctcacgcc tgtaatctca   2100

gcactttgag aggccaaggc aggcggatca cctgaagtca ggtgtttgag actagcctgg   2160

ccaacatggt gaaacctcat ctctattaaa aatacaaaaa ttagctggcc gtggtggtgc   2220

gtgcctatag tcccagctac ttgggaggct gaggcaggag aatcacttga actggggagg   2280

gagaggtgca gtgagctgag atcgtgccac tgcactccag cctggccaac agaacgagac   2340

ttcgtctc                                                             2348
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<210> 2090

<211> 2548

<212> DNA

<213> Homo sapiens

<400> 2090

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tcctttagaa ctctttagt tcacataata cgccatattt tttttactgt gcctgtagtt   180
cttcaaggag tggtacaatt tgggtaggaa aaccaggcag gaattccagg gtagtgttca   240
atattgacat tagtaatagt ctatcaataa taaaatagac atctcaatcg ctatacaaaa   300
tctcagaaat gtaaagctct tacagagcat gcttgtgctt gtgtaacagc tggtgtaatg   360
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cttattcccc atttcatgtt tactaataaa catataaact aaagtgggtc aactaaatag  1560
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tagtgcaaga ttaccaaaaa cttagtcaaa ttgaacagga tattcatttt cttctccaac  1920
taccaaaaca cagtcttcat tataaggtga ttggggtgcg gttgaaaaaa ctgtggtgaa  1980
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acgagaatca gaatgttttt tgtacaggaa ccaaatgatt gctcccaaaa ctgtcaaaat   2040

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aaaagagtat ttgggaaatt agggtacaca agttgcaagt atattttgat gagcacaact   2160

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tcagacctac tgttcccttt aggaattcta gtatttagat aatgtgttac attattgagg   2460

tttaatggtt cacctggctt tggggattta agatttgttt aactgaaaaa aacaccaaga   2520

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<210> 2091

<211> 2631

<212> DNA

<213> Homo sapiens

<400> 2091

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cctgggcaac gagagtgaaa ctccttctca gtcttggtta cctctggggc ttgacgggcc    180

ctgtcctgcc ccacctctct ctacagcctc tggccattta ttttagctgc ccctccccac    240

acaccagcct ctccaggccc ctgcatcaca gtcatctttc taaagcacag tacagctcag    300

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<210> 2092

<211> 1803

<212> DNA

<213> Homo sapiens

<400> 2092

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gcctctttac agaaccaaag attcagaact gtgccttacc ctttgcttat gaggcggagg    180

aggaggaaga gaaagaacca ccgcaaagag agatggcaac aaaggacaaa atgcttggag    240

gagcaacaga caccctgaga ccatgaagac aggacgaagt cacacactaa gatctgaggc    300

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<210> 2093

<211> 2361

<212> DNA

<213> Homo sapiens

<400> 2093

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caacttaaca agatagccag cacttaaatc acaaaataga acaccgctag gacctctttg  2220

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<210> 2094

<211> 2751

<212> DNA

<213> Homo sapiens

<400> 2094

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gaactgactg cccacctctc caactgattg ttcaaagggt agaggagaca aagtgcagat   240

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<210> 2095

<211> 3490

<212> DNA

<213> Homo sapiens

<400> 2095

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tgagttatat atgatacatg ttgtcttgtt agctgctttc attcagcagg ctgttggggc     180

cagctttcta tgtcagggat tatgggcttc cgtcatgatt ttccttttgg ctacacaata     240
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gcccattgtg tggatgtgtt ggaatttact accctcaact gttagatgat taaatgtatg   300

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cctggggatc ttctggtcac ataaaacagt tttttctctg aggaaattag aactttatac   420

ttttcttttt gtatttttat attttttctt aagaaatgct attaaaaaat aagttgtttc   480

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<210> 2096

<211> 2400

<212> DNA

<213> Homo sapiens

<400> 2096

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<212> DNA

<213> Homo sapiens

<400> 2097

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<211> 3217

<212> DNA

<213> Homo sapiens

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<211> 2523

<212> DNA

<213> Homo sapiens

<400> 2099

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<211> 2816

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 2101

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<211> 2352

<212> DNA

<213> Homo sapiens

<400> 2102

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<211> 1907

<212> DNA

<213> Homo sapiens

<400> 2103

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<212> DNA

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<211> 2507

<212> DNA

<213> Homo sapiens

<400> 2105

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ggccaaggat tttgtgcatt tgggtggaga ggccaaaatg tcagtcaggg aaaacaaagc    1920

aaatatctcc tttaataacc tgtctctggg aatcagccaa gtttaagcct atcagaggtc    1980

cttcagccca ccccacatgc gaggctgggc tgccctcacc catctcagat ggagagtcct    2040

ttaaacgctg tcaggagaca agattccaca tgctccctcc atcagctctc ccgagccaag    2100

aaagagaaga gcttgtttaa gtttggaaga ctcccattgg catgtcattg aaggtaagcc    2160

cccttttaaa tatttactgt taatgattct ggatcctatt tgtattgaac tgaagatcct    2220

ctaaagcccc tggtcttatt tctccaatct ctctccaggg gtgttcttac atgtcgtggg    2280

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<210> 2106

<211> 2230

<212> DNA

<213> Homo sapiens

<400> 2106

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gtataaaaaa gcataaataa aatttaaatc acctgtaatt tatcagccag agataatcac     180

tgttaactta ctaatgtaca ttttttatgc atattcatat tactagttgt gattatactg     240

tttatacagt attatgtctt atcctttttca acatcatatt atgggcattt tccatgttaa     300

gcatttaact ttgccttttt taatgcactt ttttcttctc tttttcttttt ttgagtcaga     360

gtcttacttt gtcatccagg cttcccagg ctcaggtgat cctcccacct caggctccca     420

aatagctggg accactggct aattttttat agagatgggg gtctcgctgt gttgctgggg     480

ctggtcccgg actcatgggc tcaagccctt caccctcctc agcctcccaa agtgctagga     540

ttacaggtgt gagccaccac acccagcctt taatgcacat tttaaaaact tgaatttgtc     600

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cttttttttt tcagctctct gatgtaaagg atggagtaaa tcaagcagca cctgcatttg     720

gatttggcag cagtcaagca gcaacattta tgtcgccagg taagtgataa agtaatgcag     780
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ttgtgacatt tttctgaccg taatagattt ttgttgtttt ttttgttgtt gttgttgttt   1380

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gatagactaa cagtagaaga actggaacaa tttcaatcca agaaatttac tctgggaaaa   1920

attccattaa agcctccacc tctggaactt ctaaatgttt aaaagggcaa ttttaaatac   1980

aaaaaagaat gatgtttaaa attgctttga gtgattcata cagagatgta tatatgcata   2040

catgtatata ttcataagga atataagctt ccatcaatag tgattttaaa tttgattttt   2100

ttcttaactc taaatattta agtaaaaagt aacaacaact ctgcaagcaa gggaattttt   2160

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cctaaaaaat                                                          2230
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<210> 2107

<211> 2128

<212> DNA

<213> Homo sapiens

<400> 2107

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aaccggatgt gggagacaac caagcgggcc atcaaagaga acaacggcat taccctgcag    180
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atggccaggg tctcccagca aggcatgaag ctgctgcagg agaatgagca gctcaaggga    240

agacagaaca atctgtgcaa acagctggag ctgctggaga acacccagaa ggtcatggcc    300

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cagcaggaca ccaaggaggc cgaggagctg cgcctcctgc tgagccagtt ggagcagaaa    420

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atccgggccg ggctacgtgg ccgccatgct tctgaggggc ggaagcggcg aggcggtggc    1920

cgagtccggg aacccaggcg ccttcagtag cgcggcgtca cagtgtccct tcgggacttg    1980

tgtgggacgc tcggagctct tgcttgacct tcggttggga ggccttgtta tgcccccgc     2040

tatggccctg acttgcggcg aaaatctggc aagtcctttc cccgctgtag gcctcaacct    2100

ctccagctaa taaaagtttt ctacctcc                                       2128
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<210> 2108

<211> 2072

<212> DNA

<213> Homo sapiens

<400> 2108

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gagggatgcc actttcctta ggaagaacag caatgtatgt cgtccttccc atccatgcag   180

atgggacagg gctctcagga aatctgccat tagcatcgcc ctagaagatg cacaggcaga   240

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```

agtgggaaga tgagagaccg gctgtaagag gagcaaggga aggaggttct ggaatgagag 1920

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ccagcctgcg agacagagcg agactccatc tc 2072

<210> 2109

<211> 2280

<212> DNA

<213> Homo sapiens

<400> 2109

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cccagagctc ggtgttcagg gaactgatta caggggtggc aaaagccaca ggggccacac 300

atttgctgag ctgcttccag gtgcgaacgg cgcttgtttg ggcatcagaa acagcacggt 360

ggatactcgg agtcctgtcc tttgaaagga gtttgattta tcatcaggag aaatttgttg 420

ctttttgcatc cagcatccag ccacgtatcc actcatctgt tttatgggga aatcagggct 480

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<210> 2110

<211> 2138

<212> DNA

<213> Homo sapiens

<400> 2110

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<210> 2111

<211> 2160

<212> DNA

<213> Homo sapiens

<400> 2111

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gtggccgtgt ggcccagggg tggccgaaag tggcactggg gtccagcccl ctcccactct   660

gtggtggagt ggggcagtca ctgcccttga gcccttttaa aaaaaaaga aattagtttt   720

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ttcagtactt tatcctgtgt cttgctctca tgggtaatcc ttaacgtagt cacctaagtt   960

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aagttacctg tatatgtgct cagtaaaatc ggtcatttgt ggggaaaaaa atggctattt   1980

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<212> DNA

<213> Homo sapiens

<400> 2112

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<212> DNA
<213> Homo sapiens

<400> 2113

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<212> DNA

<213> Homo sapiens

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<211> 2180

<212> DNA

<213> Homo sapiens

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<210> 2117

<211> 2342

<212> DNA

<213> Homo sapiens

<400> 2117

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tttgatggaa gatggaaaca aaatctatta ttatgctacc aagctcaaat tgatgacttc    180
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tttgtctgag tatggaccct tctttggtgc ttttaaccat tccttccata aatatatgtt   360

gtatccatca agcactgttc taggcactaa ggatacagtg gtgaatgaaa taggcttatt   420

ccttgcttta tgtcctacta tctggtataa atctttgttt attggattta tctccttacc   480

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cagcttccgt atcatagaga gccctattca tcgctgccca ggccttccca ggaaaatcat  2040

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gcaaggcagg aaatattggt gaaatgctag caaagtcaca attctactc tgaacatgat  2220

ctgcagtgtt catcagtatt tttctgaacc ctgctttacc atttctata ttgccaagtt  2280

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<210> 2118

<211> 2438

<212> DNA

<213> Homo sapiens

<400> 2118

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ccggctcccc caccaaatgc agtgatgcga ggcccaccac ctctgatgcg acctcctcca   180

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tccatgcctc ctcctccggg tatgatgttt ccaccaggaa tgcctcctgt gactgctcct   360

ggtactccag cactacctcc tacggaggag atatgggttg aaaataaaac tccagatggg   420

aaggtttatt attataatgc tcggacacgt gaatctgcat ggaccaagcc agatggagtt   480

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caggcccagg cgcaggctca ggcccaggcg caggctcagg cccaggcaca agctcaggcc   600

caggctcagg ctcaggccca ggcccaggcc caggcccagg cccaggccca agcccaagcc   660

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tgggagaagg agttgcacaa gatagttttt gatccccggt acttacttct caatcctaaa   1980

gagagaaaac aggtgtttga tcagtatgta aagaccaggg cagaggaaga acgcagggaa   2040

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<210> 2119

<211> 2218

<212> DNA

<213> Homo sapiens

<400> 2119

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ggcatcctgg aggtggcccc actggtcctg gtgctccagg cggggccgtg gacccctcac   2160

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<210> 2120

<211> 2440

<212> DNA

<213> Homo sapiens

<400> 2120

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cgtggtggcg ggcgcctgtg gtcccagcta ctcgggaggc tgaggcagga gaatggcatg   240

aacccgggag gcggagcttg cagcgggccg agatcgcacc actgcactcc agccagggtg   300
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acagcgagac tccgtctcaa aaaacaacaa caaaaaaaaa accaaaaaaa aaaaaaccct   360

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gcatgcctgt aatcccagct atttgggagg ctgaggcagg agaatcactt gaacctgggg   480

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<210> 2121
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<212> DNA
<213> Homo sapiens

<400> 2121

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<210> 2122

<211> 3265

<212> DNA

<213> Homo sapiens

<400> 2122

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gcctcatctg ggtcgttaac aatgcggtgc gtagctgtga gggagtttac acttctgact    180

tcgggccttg gctcctggga cggcgcactg gtgcaagagc cgcttctgga gtctggtgga    240

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<400> 2123

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<212> DNA

<213> Homo sapiens

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<211> 2469

<212> DNA

<213> Homo sapiens

<400> 2125

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<212> DNA

<213> Homo sapiens

<400> 2126

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<211> 2448

<212> DNA

<213> Homo sapiens

<400> 2127

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<400> 2131

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<400> 2184

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<213> Homo sapiens

<400> 2185

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<212> DNA

<213> Homo sapiens

<400> 2186

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<211> 3486

<212> DNA

<213> Homo sapiens

<400> 2187

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<210> 2188

<211> 5524

<212> DNA

<213> Homo sapiens

<400> 2188

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tctgcattac aagcacccca tgaattccca tgcatgtgga agtttgcgaa atgccaggct    1680
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gtagggcggc ctaggactct cacaaactgc cgaggcaacg gaatccacag agagaaagca  1740

ctgctttagg ttatttagcg agctgatggc agaggtggaa cagaacctgc ctctctgccc  1800

agccagggat tccataaggt ggtgcaaatc aggagaaata ggtgacacta tttgtggagt  1860

tcttatgagg tccaggcact acctcagatc ttcacatgaa ctaattcatt taatcctcac  1920

aagagccagt gaggaagggg caattattat ccccactcca cagatgaggt acctgaggca  1980

aagagagttt aggtggcttg cctgaggtca cacagctcat gagttgttaa gttgtgtgtg  2040

ccagctgccc ctggggctgc taactccccc aggagtctcc cacctcctgc cctgcctctt  2100

agctacctca aaacttcctg gagaccctcc aacagacctc atggaagggg gcagaatatg  2160

tatgggagac ttctgggagt cagacactgt gctgaacagc ttgcattatc atttaatcct  2220

cccaggattc ctgtgaggca ggaatcagca tcattccatc accctcactt tctagagaag  2280

gaaaccgctg cagattaccc aatgtcacgc aattaaaaag tggtgaaggg gatttgaacc  2340

tagtctatgc atctgcagaa cgcacactct tgggctgccc accccgacac ctctgagggc  2400

agtgatgaag aatcccacct cacagaggag acggaggcca ggagtgaggc cctgccggag  2460

cctgagccca agccttctag ctctgaggcc actgctctcc cttcaaccct gttgctgccc  2520

cgcaacagaa agtttgtcat tggtccctca cagccacacc acagcccttt gggcaaaatc  2580

agcccttcc cagcctggcc agttctgggg gaaaatgaca cctgacacct gacacctatc  2640

catttttttt tttttttttg aaatgaggtc tccctctgtc aaccaggctg gagtgcagtg  2700

actcttctca attgactgca acctctgctt cccaggctca agtgatcctt ccacctcagc  2760

ctcccaagta gctgggatta cagatgtgtg ccacatctgg ctaatttttt gtgttttttt  2820

gtagagacag ggtttcgcca tgttatccag gctggcctca aactcctggg ctcaagtgat  2880

cccccagcct cagcctccca aagtgctagg attacaggca tgggccactg cactcagcca  2940

acacctatcc ttgaggaata gaaagatcca ggctccacac cacgcaccat cactgactca  3000

agtggctgtt ctgattccca gctgagcctg aggggttcgg ggaggtaatc tctgaggtcc  3060

tcactgctgg gccgtgcctg ggcatggcct cttcctgcaa ttttccaact aaactctccg  3120

gggggggctca gcgccatggg gtggttcgaa gaaccatgat gaaggctggt tcgaattgtg  3180

atgaccattt ttgtccacat ctcctaggac ccataagcca gagtttctct ggagcttata  3240

gctagaaggg gttctgggtc ctggagtgca ggcctgtcaa ctttacagga gagcactaga  3300

ttgctttctg aagtggctga accaggttat gcttccatca gctgtgtatg agcatcccca  3360

tcttcttgac cacacttgaa gccatcagtt tccttgaagc atatgggttg cacacttcat  3420

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ggtgtgcctt ctgtaggctg ctacgctcct gtgcacgagg gcgtctagaa ctttgccctc  3540

catgcacaag ttgcagagca ccctcatcag gacatttacg aaggccctgg ggtgggatgg  3600

gcactgccta tgtggccctc ccccagccca gcagtatgca gtggcccggg tccaatcaaa  3660

ggtcgcctgg gagggtgagt tgcaagaatc tggggaaaag agcccaaggt ggctgccgcc  3720

tgctaacagc ttgtctagac aggccccatg gggcttcacc gcacattgcg agagctctgg  3780

ccagcccccт gcccacttgc aaaagaggct gttggcagca acacttcacc actagaaacc  3840
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tttactccaa ttcgaaacat gccttaacgc acagtgtgaa ttacccactc tcgtggccca   3900

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gatgtgagcc aggctgctgg gtttgaatcc tggagctgcc tcatagcagc agtaggactt   4140

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taagaccagc cacagtggct cacacctgta atctgagcat tctgggaggc caaggcggaa   4380

gaatcccttg agcccagtat ttcaagacca gcctaaaggt caacataggc agactctgtc   4440

tctactatac atttttagat taaattttta taataataat aaccactaaa atgtgattac   4500

taaagacagc ttcttcacag tacaaagaga tgctcttctg agtaccaact ctttggagga   4560

taaactgccc ttataccttc aaaaataaca cttgccatat atcaagtcct ttcaagtacc   4620

tggagattta cccagcactc tgagataaat accattatcc ctctgggcac acagaggctc   4680

agagaggttt agtcatttgc ccaaagtcac acagcctgta cgaggccagg ctgggactca   4740

aactcagttc tgactgattc taaaatcatg tgtttaactg ctgcactcta ggaccacccg   4800

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cagttggcta ggcccagact ggagaaagcc accccaccat ggctcttctg caagaacccc   5160

cggccagcca caagcctaag ccccctcctt aaaagctcct cctctgacct tagctgtgca   5220

tcaagggaga aaagaaagct ccaggccggg tgcggtggct cacacctgca atcccagcac   5280

tttgggagac caaggctggc agatcattag gtcaggagtt cgagaccagc ctggccagca   5340

aggtgaaacc ccatctctac taaaattaca aaaaattagt caggcatggt gacacgtgcc   5400

tgtagtccca gctactctgg aggctgaggc aggagaattg cttgaaccca ggaggcgaag   5460

gttgcagtaa accaagatca cgccactaca ctccagcctg ggcgacagag caagactctg   5520

tctc                                                                5524
```

<210> 2189

<211> 239

<212> PRT

<213> Homo sapiens

<400> 2189

Met His Thr His Thr His Thr His Thr Thr Pro Lys Met Ala Asp Leu
 1   5   10   15

Leu Gly Ser Ile Leu Ser Ser Met Glu Lys Pro Pro Ser Leu Gly Asp
             20   25   30

Gln Glu Thr Arg Arg Lys Ala Arg Glu Gln Ala Ala Arg Leu Lys Lys
             35   40   45

Leu Gln Glu Gln Glu Lys Gln Gln Lys Val Glu Phe Arg Lys Arg Met
     50   55   60

Glu Lys Glu Val Ser Asp Phe Ile Gln Asp Ser Gly Gln Ile Lys Lys
 65   70   75   80

Lys Phe Gln Pro Met Asn Lys Ile Glu Arg Ser Ile Leu His Asp Val
                 85   90   95

Val Glu Val Ala Gly Leu Thr Ser Phe Ser Phe Gly Glu Asp Asp Asp
             100   105   110

Cys Arg Tyr Val Met Ile Phe Lys Lys Glu Phe Ala Pro Ser Asp Glu
             115   120   125

Glu Leu Asp Ser Tyr Arg Arg Gly Glu Glu Trp Asp Pro Gln Lys Ala
     130   135   140

Glu Glu Lys Arg Lys Leu Lys Glu Leu Ala Gln Arg Gln Glu Glu Glu
145   150   155   160

Ala Ala Gln Gln Gly Pro Val Val Val Ser Pro Ala Ser Asp Tyr Lys
                 165   170   175

Asp Lys Tyr Ser His Leu Ile Gly Lys Gly Ala Ala Lys Asp Ala Ala
             180   185   190

His Met Leu Gln Ala Asn Lys Thr Tyr Gly Cys Val Pro Val Ala Asn
             195   200   205

Lys Arg Asp Thr Arg Ser Ile Glu Glu Ala Met Asn Glu Ile Arg Ala
     210   215   220

Lys Lys Arg Leu Arg Gln Ser Gly Glu Glu Leu Pro Pro Thr Ser
225   230   235

<210> 2190

<211> 213

<212> PRT

<213> Homo sapiens

<400> 2190

Met Ala Ala Ala Ala Ala Ala Gly Glu Ala Arg Arg Val Leu Val Tyr
1   5   10   15

Gly Gly Arg Gly Ala Leu Gly Ser Arg Cys Val Gln Ala Phe Arg Ala
                20   25   30

Arg Asn Trp Val Thr Ala Glu Val Gly Lys Leu Leu Gly Glu Glu Lys
            35   40   45

Val Asp Ala Ile Leu Cys Val Ala Gly Gly Trp Ala Gly Gly Asn Ala
        50   55   60

Lys Ser Lys Ser Leu Phe Lys Asn Cys Asp Leu Met Trp Lys Gln Ser
65   70   75   80

Ile Trp Thr Ser Thr Ile Ser Ser His Leu Ala Thr Lys His Leu Lys
                85   90   95

Glu Gly Gly Leu Leu Thr Leu Ala Gly Ala Lys Ala Ala Leu Asp Gly
                100   105   110

Thr Pro Gly Met Ile Gly Tyr Gly Met Ala Lys Gly Ala Val His Gln
            115   120   125

Leu Cys Gln Ser Leu Ala Gly Lys Asn Ser Gly Met Pro Pro Gly Ala
        130   135   140

Ala Ala Ile Ala Val Leu Pro Val Thr Leu Asp Thr Pro Met Asn Arg
145   150   155   160

Lys Ser Met Pro Glu Ala Asp Phe Ser Ser Trp Thr Pro Leu Glu Phe
                165   170   175

Leu Val Glu Thr Phe His Asp Trp Ile Thr Gly Lys Asn Arg Pro Ser
                180   185   190

Ser Gly Ser Leu Ile Gln Val Val Thr Thr Glu Gly Arg Thr Glu Leu
            195   200   205

Thr Pro Ala Tyr Phe
        210

<210> 2191
<211> 244
<212> PRT

<213> Homo sapiens

<400> 2191

```
Met Glu Gln Leu Lys Ser Phe Gln Ile Ile Ala His Leu Lys Arg Leu
 1               5                   10                  15
Gln Glu Glu Ile Asn Glu Val Lys Thr Trp Ser Asn Arg Ile Thr Glu
                20                  25                  30
Lys Gln Asp Ile Leu Asn Asn Ser Leu Thr Thr Leu Ser Gln Asp Ile
            35                  40                  45
Thr Lys Val Asp Gln Ser Thr Thr Ser Met Ala Lys Asp Val Gly Leu
        50                  55                  60
Lys Ile Thr Ser Val Lys Thr Asp Ile Arg Arg Ile Ser Gly Leu Val
65                  70                  75                  80
Thr Asp Val Ile Ser Leu Thr Asp Ser Val Gln Glu Leu Glu Asn Lys
                85                  90                  95
Ile Glu Lys Val Glu Lys Asn Thr Val Lys Asn Ile Gly Asp Leu Leu
                100                 105                 110
Ser Ser Ser Ile Asp Arg Thr Ala Thr Leu Arg Lys Thr Ala Ser Glu
            115                 120                 125
Asn Ser Gln Arg Ile Asn Ser Val Lys Lys Thr Leu Thr Glu Leu Lys
            130                 135                 140
Ser Asp Phe Asp Lys His Thr Asp Arg Phe Leu Ser Leu Glu Gly Asp
145                 150                 155                 160
Arg Ala Lys Val Leu Lys Thr Val Thr Phe Ala Asn Asp Leu Lys Pro
                165                 170                 175
Lys Val Tyr Asn Leu Lys Lys Asp Phe Ser Arg Leu Glu Pro Leu Val
                180                 185                 190
Asn Asp Leu Thr Leu Arg Ile Gly Arg Leu Val Thr Asp Leu Leu Gln
            195                 200                 205
Arg Glu Lys Glu Ile Ala Phe Leu Ser Glu Lys Ile Ser Asn Leu Thr
        210                 215                 220
Ile Val Gln Ala Glu Ile Lys Asp Ile Lys Asp Glu Ile Ala His Ile
225                 230                 235                 240
Ser Asp Met Asn
```

<210> 2192

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2192

Met Gln Ser Lys Ala Pro Leu Met Pro Ala Ala Leu Arg Pro Ser Met
1   5   10   15

Ser Pro Ala Gln Gln Ser Ser Tyr Tyr Lys Arg His Arg Ala Glu His
            20   25   30

Ile Ala Ser Asp Pro Glu Glu Ser Pro Pro Ser Gln Leu Gly Thr Ile
            35   40   45

Val Lys Glu Met Cys Trp Arg Lys Ser Pro Ser Val Ser Cys Leu Ser
        50   55   60

Ile Lys Leu His Ser Val Trp Val Cys Ile Leu Pro Ile Leu Ala Val
65   70   75   80

Leu Gly Leu Arg Ile Leu Gly Ser Ser Arg Val Ser Ile Pro Tyr His
                85   90   95

Ala His Leu Gly Asn Arg Gly Thr Gly Gln Tyr Arg
                100   105

<210> 2193

<211> 475

<212> PRT

<213> Homo sapiens

<400> 2193

Met Asp Trp Thr Trp Arg Val Leu Phe Val Val Ala Ala Ser Thr Gly
1   5   10   15

Val Gln Ser Gln Val Gln Leu Met Gln Ser Gly Ala Glu Val Lys Lys
            20   25   30

Pro Gly Ser Ser Val Lys Val Ser Cys Lys Thr Ser Gly Ala Ser Phe
            35   40   45

Ala Ser Tyr Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu

```
              50                      55                      60
Glu Trp Met Gly Gly Ile Ile Pro Val Phe Arg Thr Pro Asn Tyr Ala
65                      70                      75                      80
Gln Lys Phe Gln Gly Arg Leu Thr Ile Thr Ala Asp Asp Ser Thr Gly
                        85                      90                      95
Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Tyr Glu Asp Thr Ala Val
                        100                     105                     110
Tyr Tyr Cys Ala Ser Leu Ala Cys Gly Asp Asp Cys Ser Phe Leu Tyr
                    115                     120                     125
His Tyr Tyr Met Ala Ala Trp Gly Arg Gly Thr Ala Val Thr Val Ser
                130                     135                     140
Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser
145                     150                     155                     160
Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp
                        165                     170                     175
Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr
                        180                     185                     190
Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr
                    195                     200                     205
Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln
            210                     215                     220
Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp
225                     230                     235                     240
Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
                        245                     250                     255
Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
                    260                     265                     270
Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
                275                     280                     285
Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
            290                     295                     300
Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
305         .           310                     315                     320
Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
                    325                     330                     335
Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
```

```
                    340                     345                     350
Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
                355                     360                     365
Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp
            370                     375                     380
Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
385                     390                     395                     400
Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
                    405                     410                     415
Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
                420                     425                     430
Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
            435                     440                     445
Asn Val Phe Ser Cys Ser Val Met His Glu Gly Leu His Asn His Tyr
        450                     455                     460
Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465                     470                     475
```

<210> 2194

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2194

```
Met Cys Gly Val Met Ile Tyr Val Phe Phe Glu Met Gly Trp Ser
  1                   5                   10                  15
Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Val Ile Leu Ala His
                20                      25                      30
Cys Asn Leu Cys Leu Leu Gly Ser Ser Asp Leu Pro Ala Ser Ala Ser
                35                      40                      45
Ser Val Ala Gly Thr Thr Gly Ala Cys Gln His Thr Arg Leu Ile Phe
        50                      55                      60
Val Phe Leu Val Glu Thr Lys Val Pro Gly Leu Lys Arg Ser Met Gly
 65                     70                      75                      80
Leu Ser Phe Leu Lys Cys Trp Asp Tyr Arg Arg Glu Pro Leu Tyr Thr
```

```
                    85                      90                      95
Phe Asn Leu Ile Ser Cys Met Tyr Tyr Thr Pro Asp Phe Lys Phe Tyr
                100                     105                     110
Arg Pro Leu Ile Phe Tyr Ser Leu Pro Lys Gln Met Thr Arg Phe Leu
                115                     120                     125
Ala Val Phe Ser Gly
            130
```

<210> 2195

<211> 124

<212> PRT

<213> Homo sapiens

<400> 2195

```
Met Leu Pro Ser Lys Ala Phe Glu Phe Ala Thr Val Lys Ser Met His
  1               5                      10                      15
Gly Ile Phe Gly Cys Gly Leu Ala Leu Pro Pro Val Phe Thr Ala Glu
                20                      25                      30
Leu Leu Tyr Leu Thr Arg Ala Cys Ala Ser Asp Glu Gln Pro Phe Ile
                35                      40                      45
Thr Ala Leu Arg Pro Pro Pro Arg Pro Pro Pro Ser Ala Leu Gln Phe
            50                      55                      60
Ile Ser Arg Leu Val Pro Ile Ala Thr Cys Gly Leu Gly Gly Pro Pro
 65                     70                      75                      80
Asp Ile Leu Ser Phe Gly Ser Pro Val Thr Pro Glu Leu Leu Pro Phe
                85                      90                      95
Trp Gly Ala His Ile Cys Asp Thr Leu Val Cys Pro Val His Phe Leu
                100                     105                     110
His Leu Glu Phe Leu Ser Cys Ser His Ile Ser Ile
                115                     120
```

<210> 2196

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2196

```
Met Lys Arg Gly Tyr Pro His Pro Ser Glu Gly Leu Ser Val Gly Leu
1               5                   10                  15
Gln Ala Pro Leu Ala Ser Cys Leu Leu Val Gly Thr Ser Gly Ala Ala
                20                  25                  30
His Cys Gln Val Gln Leu Ser Arg Pro Cys Cys Val Trp Gly Gln Trp
            35                  40                  45
Ala Leu Glu Ser Ser Ser Gln Thr Ala Pro Gly Ala Val Pro Leu Ser
        50                  55                  60
Leu Leu Leu Leu Pro Arg Pro Arg Cys Ser Leu Ser Val Leu Gln His
65                  70                  75                  80
Arg Ala Leu Asp Cys Pro Cys Pro Ala Gly Gly Ala Gly Gln His Trp
                85                  90                  95
Ser His Ser Leu Arg Trp Cys His Ser Ser Pro Glu Glu Leu Ser Ser
            100                 105                 110
Arg His Arg Ile Pro Pro Val Thr Ile Gly Arg Gln Asp Thr Gln Asp
            115                 120                 125
Leu Gly Gly Cys Gly Thr Ser Glu Arg Arg Gly
        130                 135
```

<210> 2197
<211> 157
<212> PRT
<213> Homo sapiens

<400> 2197

```
Met Gly Gly Pro Gly Leu Gly Ser His Leu Ser Gly Gly Gly Trp Ser
1               5                   10                  15
Arg Ala Arg Ser Met Cys Thr Pro Gly Thr Lys Asp Pro Arg Ala Leu
                20                  25                  30
Leu Leu Asp Ala Leu Arg Ser Pro Thr Ser Asn Gln Asp Leu Gly Glu
            35                  40                  45
Ala Ser Leu Gln Ala Thr Leu Leu Gly Leu Ala Ala Leu Asn Lys Ala
```

```
              50                    55                    60
Tyr Pro Glu Val Leu Ala Gln Gly Arg Thr Ala Arg Val Thr Leu Thr
 65                    70                    75                    80
Ser Pro Trp Pro Arg Pro Leu Pro Trp Pro Gly Asn Thr Leu Gly Gln
                      85                    90                    95
Val Gly Thr Pro Gly Thr Lys Ala Leu Arg Trp Cys Leu Gln Gly Ala
                     100                   105                   110
Gln Arg Pro His Cys Ser Leu Arg Arg Ser Thr Asp Ile Ser Thr Phe
                     115                   120                   125
Arg Asn His Leu Pro Leu Thr Lys Ala Ser Gln Thr Gln Gln Glu Asp
                     130                   135                   140
Ser Gly Glu Gln Pro Leu Pro Pro Thr Ser Asn Gln Gly
145                   150                   155
```

<210> 2198

<211> 392

<212> PRT

<213> Homo sapiens

<400> 2198

```
Met Leu Ala Pro Cys Phe Leu Tyr Ser Leu Gln Asn Trp Asp Ile Ile
 1                   5                    10                    15
Phe Asn Ala Gln Tyr Pro Glu Leu Pro Pro Asp Phe Ile Phe Gly Glu
                     20                    25                    30
Asp Ala Glu Phe Leu Pro Asp Pro Ser Ala Leu Gln Asn Leu Ala Ser
             35                    40                    45
Trp Asn Pro Ser Asn Pro Glu Cys Leu Leu Leu Val Val Lys Glu Leu
             50                    55                    60
Val Gln Gln Tyr His Gln Phe Gln Cys Ser Arg Leu Arg Glu Ser Ser
 65                    70                    75                    80
Arg Leu Met Phe Glu Tyr Gln Thr Leu Leu Glu Glu Pro Gln Tyr Gly
                     85                    90                    95
Glu Asn Met Glu Ile Tyr Ala Gly Lys Lys Asn Asn Trp Asn Leu Ala
                     100                   105                   110
Ser Trp Asn Pro Ser Asn Pro Glu Cys Leu Leu Leu Val Val Lys Glu
```

```
              115                    120                    125
Leu Val Gln Gln Tyr His Gln Phe Gln Cys Ser Arg Leu Arg Glu Ser
          130                    135                    140
Ser Arg Leu Met Phe Glu Tyr Gln Thr Leu Leu Glu Glu Pro Gln Tyr
145                    150                    155                    160
Gly Glu Asn Met Glu Ile Tyr Ala Gly Lys Lys Asn Asn Trp Thr Gly
                  165                    170             .      175
Glu Phe Ser Ala Arg Phe Leu Leu Lys Leu Pro Val Asp Phe Ser Asn
                  180          .         185                    190
Ile Pro Thr Tyr Leu Leu Lys Asp Val Asn Glu Asp Pro Gly Glu Asp
                  195                    200                    205
Val Ala Leu Leu Ser Val Ser Phe Glu Asp Thr Glu Ala Thr Gln Val
          210                    215                    220
Tyr Pro Lys Leu Tyr Leu Ser Pro Arg Ile Glu His Ala Leu Gly Gly
225                    230                    235                    240
Ser Ser Ala Leu His Ile Pro Ala Phe Pro Gly Gly Gly Cys Leu Ile
                  245                    250                    255
Asp Tyr Val Pro Gln Val Cys His Leu Leu Thr Asn Lys Val Gln Tyr
                  260                    265                    270
Val Ile Gln Gly Tyr His Lys Arg Arg Glu Tyr Ile Ala Ala Phe Leu
                  275                    280                    285
Ser His Phe Gly Thr Gly Val Val Glu Tyr Asp Ala Glu Gly Phe Thr
          290                    295                    300
Lys Leu Thr Leu Leu Leu Met Trp Lys Asp Phe Cys Phe Leu Val His
305                    310                    315                    320
Ile Asp Leu Pro Leu Phe Phe Pro Arg Asp Gln Pro Thr Leu Thr Phe
                  325                    330                    335
Gln Ser Val Tyr His Phe Thr Asn Ser Gly Gln Leu Tyr Ser Gln Ala
                  340                    345                    350
Gln Lys Asn Tyr Pro Tyr Ser Pro Arg Trp Asp Gly Asn Glu Met Ala
                  355                    360                    365
Lys Arg Ala Lys Ala Tyr Phe Lys Thr Phe Val Pro Gln Phe Gln Glu
          370                    375                    380
Ala Ala Phe Ala Asn Gly Lys Leu
385                    390
```

<210> 2199

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2199

Met Gln Thr Ser Phe Ala Ala Lys Glu Pro Gly Gln Ala Arg Leu Leu

1   5   10   15

Pro Gly Leu Ala Arg Asn Arg Leu Arg Arg His Phe Pro Leu Ser Leu

            20   25   30

Pro Gly Pro Glu Arg Ser Pro Pro Leu Pro Ser Arg Pro Leu Ser Gly

        35   40   45

Ser Leu Gln Val Ser Ile Gln Lys Arg Leu Arg Ala Ala Gln Arg Trp

    50   55   60

Arg Pro Gly Gly Ala Glu Ala Arg Gly Gln Met Thr Arg Leu Gly Gly

65   70   75   80

Lys Gly Gly Gln Gln Phe Pro Pro Gly Gln Lys Ile Ile Ser Lys Asp

            85   90   95

Ile Leu Ala Leu Thr Ala Leu Ser Val Ala Arg Lys Leu Ser Ser Val

            100   105   110

Asn Cys

<210> 2200

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2200

Met Gly Leu Pro Arg Pro Lys Arg Leu Lys Lys Lys Glu Phe Ser Leu

1   5   10   15

Glu Glu Ile Tyr Thr Asn Lys Asn Tyr Lys Ser Pro Pro Ala Asn Arg

            20   25   30

Cys Leu Glu Thr Ile Phe Glu Glu Pro Lys Glu Arg Asn Gly Thr Leu
            35   40   45
Ile Ser Ile Ser Gln Gln Lys Arg Lys Arg Val Leu Glu Phe Gln Asp
        50   55   60
Phe Thr Val Pro Arg Lys Arg Arg Ala Arg Gly Lys Val Lys Val Ala
65   70   75   80
Gly Ser Phe Thr Arg Ala Gln Lys Ala Ala Val Gln Ser Arg Glu Leu
                85   90   95
Asp Ala Leu Leu Ile Gln Lys Leu Met Glu Leu Glu Thr Phe Phe Ala
            100   105   110
Lys Glu Glu Glu Gln Glu Gln Ser Ser Gly Cys
        115   120

<210> 2201
<211> 364
<212> PRT
<213> Homo sapiens

<400> 2201
Met Cys Phe Arg Val Lys Phe Tyr Pro Ala Asp Pro Ala Ala Leu Lys
1   5   10   15
Glu Glu Ile Thr Arg Tyr Leu Val Phe Leu Gln Ile Lys Arg Asp Leu
                20   25   30
Tyr His Gly Arg Leu Leu Cys Lys Thr Ser Asp Ala Ala Leu Leu Ala
            35   40   45
Ala Tyr Ile Leu Gln Ala Glu Ile Gly Asp Tyr Asp Ser Gly Lys His
        50   55   60
Pro Glu Gly Tyr Ser Ser Lys Phe Gln Phe Phe Pro Lys His Ser Glu
65   70   75   80
Lys Leu Glu Arg Lys Ile Ala Glu Ile His Lys Thr Glu Leu Ser Gly
                85   90   95
Gln Thr Pro Ala Thr Ser Glu Leu Asn Phe Leu Arg Lys Ala Gln Thr
            100   105   110
Leu Glu Thr Tyr Gly Val Asp Pro His Pro Cys Lys Asp Val Ser Gly
        115   120   125

```
Asn Ala Ala Phe Leu Ala Phe Thr Pro Phe Gly Phe Val Val Leu Gln
    130                 135                 140
Gly Asn Lys Arg Val His Phe Ile Lys Trp Asn Glu Val Thr Lys Leu
145                 150                 155                 160
Lys Phe Glu Gly Lys Thr Phe Tyr Leu Tyr Glu Lys Lys Ile Ile Leu
                165                 170                 175
Thr Tyr Phe Ala Pro Thr Pro Glu Ala Cys Lys His Leu Trp Lys Cys
                180                 185                 190
Gly Ile Glu Asn Gln Ala Phe Tyr Lys Leu Glu Lys Ser Ser Gln Val
        195                 200                 205
Arg Thr Val Ser Ser Ser Asn Leu Phe Phe Lys Gly Ser Arg Phe Arg
    210                 215                 220
Tyr Ser Gly Arg Val Ala Lys Glu Val Met Glu Ser Ser Ala Lys Ile
225                 230                 235                 240
Lys Arg Glu Pro Pro Glu Ile His Arg Ala Gly Met Val Pro Ser Arg
                245                 250                 255
Ser Cys Pro Ser Ile Thr His Gly Pro Arg Leu Ser Ser Val Pro Arg
                260                 265                 270
Thr Arg Arg Arg Ala Val His Ile Ser Ile Met Glu Gly Leu Glu Ser
        275                 280                 285
Leu Arg Asp Ser Ala His Ser Thr Pro Val Arg Ser Thr Ser His Gly
    290                 295                 300
Asp Thr Phe Leu Pro His Val Arg Ser Ser Arg Thr Asp Ser Asn Glu
305                 310                 315                 320
Arg Val Ala Val Ile Ala Asp Glu Ala Tyr Ser Pro Ala Asp Ser Val
                325                 330                 335
Leu Pro Thr Pro Val Ala Glu His Ser Leu Glu Leu Met Leu Leu Ser
                340                 345                 350
Arg Gln Ile Asn Gly Ala Thr Cys Ser Ile Glu Glu
        355                 360
```

<400> 2202

Met Asp Ser Ser Ala Val Val Lys Gly Thr Asn Ser His Val Pro Asp
1   5   10   15

Cys His Thr Lys Gly Ser Ser Phe Leu Gly Lys Glu Leu Ser Leu Asp
                20   25   30

Glu Ala Phe Pro Asp Gln Gln Asn Gly Ser Ala Thr Asn Ala Trp Asp
                35   40   45

Gln Ser Ser Cys Ser Ser Pro Lys Trp Glu Cys Thr Glu Leu Ile His
        50   55   60

Asp Ile Pro Leu Pro Glu His Arg Ser Asn Thr Met Phe Ile Ser Glu
65   70   75   80

Thr Glu Arg Glu Ile Met Thr Leu Gly Gln Glu Asn Gln Thr Ser Ser
                85   90   95

Val Ser Asp Asp Arg Val Lys Leu Ser Val Ser Gly Ala Asp Thr Ser
                100   105   110

Val Ser Ser Val Asp Gly Pro Val Ser Gln Lys Ala Val Gln Asn Glu
        115   120   125

Asn Ser Tyr Gln Met Glu Glu Asp Gly Ser Leu Lys Gln Ser Ile Leu
        130   135   140

Ser Ser Glu Leu Leu Asp His Pro Tyr Cys Lys Ser Pro Leu Glu Ala
145   150   155   160

Pro Leu Val Cys Ser Gly Leu Lys Leu Glu Asn Gln Val Gly Gly Gly
                165   170   175

Lys Asn Ser Gln Lys Ala Ser Pro Val Asp Asp Glu Gln Leu Ser Val
                180   185   190

Cys Leu Ser Gly Phe Leu Asp Glu Val Met Lys Lys Tyr Gly Ser Leu
        195   200   205

Val Pro Leu Ser Glu Lys Glu Val Leu Gly Arg Leu Lys Asp Val Phe
        210   215   220

Asn Glu Asp Phe Ser Asn Arg Lys Pro Phe Ile Asn Arg Glu Ile Thr
225   230   235   240

Asn Tyr Arg Ala Arg His Gln Lys Cys Asn Phe Arg Ile Phe Tyr Asn
                245   250   255

Lys His Met Leu Asp Met Asp Asp Leu Ala Thr Leu Asp Gly Gln Asn
                260   265   270

Trp Leu Asn Asp Gln Val Ile Asn Met Tyr Gly Glu Leu Ile Met Asp
        275   280   285

Ala Val Pro Asp Lys Val His Phe Phe Asn Ser Phe Phe His Arg Gln
        290   295   300

Leu Val Thr Lys Gly Tyr Asn Gly Val Lys Arg Trp Thr Lys Lys Val
305   310   315   320

Asp Leu Phe Lys Lys Ser Leu Leu Leu Ile Pro Ile His Leu Glu Val
                325   330   335

His Trp Ser Leu Ile Thr Val Thr Leu Ser Asn Arg Ile Ile Ser Phe
                340   345   350

Tyr Asp Ser Gln Gly Ile His Phe Lys Phe Cys Val Glu Asn Ile Arg
                355   360   365

Lys Tyr Leu Leu Thr Glu Ala Arg Glu Lys Asn Arg Pro Glu Phe Leu
        370   375   380

Gln Gly Trp Gln Thr Ala Val Thr Lys Cys Ile Pro Gln Gln Lys Asn
385   390   395   400

Asp Ser Asp Cys Gly Val Phe Val Leu Gln Tyr Cys Lys Cys Leu Ala
                405   410   415

Leu Glu Gln Pro Phe Gln Phe Ser Gln Glu Asp Met Pro Arg Val Arg
                420   425   430

Lys Arg Ile Tyr Lys Glu Leu Cys Glu Cys Arg Leu Met Asp
        435   440   445

<210> 2203

<211> 157

<212> PRT

<213> Homo sapiens

<400> 2203

Met Val Ile Phe Arg Trp Trp Lys Ile Ser Leu Arg Ser Glu Tyr Arg
1   5   10   15

Ser Thr Lys Pro Gly Glu Ala Lys Glu Thr His Glu Asp Phe Leu Glu
            20   25   30 ·

Asn Ser His Leu Gln Gly Gln Thr Ala Leu Ile Phe Gly Ala Arg Ile
        35   40   45

Leu Asp Tyr Val Ile Asn Leu Cys Lys Gly Lys Phe Asp Phe Leu Glu
    50   55   60

Arg Leu Ser Asp Asp Leu Leu Leu Thr Ile Ile Ser Tyr Leu Asp Leu
65   70   75   80

Glu Asp Ile Ala Arg Leu Cys Gln Thr Ser His Arg Phe Ala Lys Leu
        85   90   95

Cys Met Ser Asp Lys Leu Trp Glu Gln Ile Val Gln Ser Thr Cys Asp
        100   105   110

Thr Ile Thr Pro Asp Val Arg Ala Leu Ala Glu Asp Thr Gly Trp Arg
        115   120   125

Gln Leu Phe Phe Thr Asn Lys Leu Gln Leu Gln Arg Gln Leu Arg Lys
        130   135   140

Arg Lys Gln Lys Tyr Gly Asn Leu Arg Glu Lys Gln Pro
145   150   155

<210> 2204

<211> 430

<212> PRT

<213> Homo sapiens

<400> 2204

Met Ala Glu Pro Gln Ala Glu Ser Glu Pro Leu Leu Gly Gly Ala Arg
1   5   10   15

Gly Gly Gly Gly Asp Trp Pro Ala Gly Leu Thr Thr Tyr Arg Ser Ile
        20   25   30

Arg Val Gly Pro Gly Ala Ala Ala Arg Trp Asp Leu Cys Ile Asp Gln
        35   40   45

Ala Val Val Phe Ile Glu Asp Ala Ile Gln Gly Tyr Leu Phe Gly Trp
    50   55   60

Ala His Phe Gln Lys Asn Leu Trp Leu Leu Gly Tyr Leu Val Val Leu
65   70   75   80

Val Val Ser Leu Val Asp Trp Thr Val Ser Leu Ser Leu Val Cys His
        85   90   95

Glu Pro Leu Arg Ile Arg Arg Leu Leu Arg Pro Phe Phe Leu Leu Gln
        100   105   110

Asn Ser Ser Met Met Lys Lys Thr Leu Lys Cys Ile Arg Trp Ser Leu
        115   120   125

Pro Glu Met Ala Ser Val Gly Leu Leu Leu Ala Ile His Leu Cys Leu
        130   135   140

Phe Thr Met Phe Gly Met Leu Leu Phe Ala Gly Gly Lys Gln Asp Asp
145   150   155   160

Gly Gln Asp Arg Glu Arg Leu Thr Tyr Phe Gln Asn Leu Pro Glu Ser
                165   170   175

Leu Thr Ser Leu Leu Val Leu Leu Thr Thr Ala Asn Asn Pro Asp Val
            180   185   190

Met Ile Pro Ala Tyr Ser Lys Asn Arg Ala Tyr Ala Ile Phe Phe Ile
            195   200   205

Val Phe Thr Val Ile Gly Ser Leu Phe Leu Met Asn Leu Leu Thr Ala
    210   215   220

Ile Ile Tyr Ser Gln Phe Arg Gly Tyr Leu Met Lys Ser Leu Gln Thr
225   230   235   240

Ser Leu Phe Arg Arg Arg Leu Gly Thr Arg Ala Ala Phe Glu Val Leu
                245   250   255

Ser Ser Met Val Gly Glu Gly Gly Ala Phe Pro Gln Ala Val Gly Val
            260   265   270

Lys Pro Gln Asn Leu Leu Gln Val Leu Gln Lys Val Gln Leu Asp Ser
        275   280   285

Ser His Lys Gln Ala Met Met Glu Lys Val Arg Ser Tyr Gly Ser Val
    290   295   300

Leu Leu Ser Ala Glu Glu Phe Gln Lys Leu Phe Asn Glu Leu Asp Arg
305   310   315   320

Ser Val Val Lys Glu His Pro Pro Arg Pro Glu Tyr Gln Ser Pro Phe
                325   330   335

Leu Gln Ser Ala Gln Phe Leu Phe Gly His Tyr Tyr Phe Asp Tyr Leu
            340   345   350

Gly Asn Leu Ile Ala Leu Ala Asn Leu Val Ser Ile Cys Val Phe Leu
        355   360   365

Val Leu Asp Ala Asp Val Leu Pro Ala Glu Arg Asp Asp Phe Ile Leu
    370   375   380

Gly Ile Leu Asn Cys Val Phe Ile Val Tyr Tyr Leu Leu Glu Met Leu
385   390   395   400

Leu Lys Val Phe Ala Leu Gly Leu Arg Gly Tyr Leu Ser Tyr Pro Ser
                405   410   415

Asn Val Phe Asp Gly Leu Leu Thr Val Val Leu Leu Val Lys
            420   425   430

<210> 2205
<211> 129
<212> PRT
<213> Homo sapiens

<400> 2205
Met Pro Ser Phe Leu Pro Ile His Tyr Cys Ser Pro Asn Val Leu Cys
1   5   10   15

Val Trp Thr Ala Ile Thr Ser Ser Thr Phe Ser Pro Tyr Tyr Leu Leu
            20   25   30

Ile Leu Gln Asn Ser Ala His Pro Gln Ile Pro Leu Arg Ser Pro Ser
        35   40   45

Gly Cys Ser Ser Pro Ser Asn Leu Asn Lys Met Ser Phe Leu Gly Ala
    50   55   60

Leu Ile Ala Phe Arg Leu Asp Thr Gly Pro Gln Ser Glu Val Ser Ala
65   70   75   80

Trp Thr Ala Ser Pro Ser Ser Gly Asn Ser Leu Glu Met Gln Ile Met
            85   90   95

Arg Pro Tyr Pro Arg Pro Pro Glu Thr Glu Thr Leu Gly Val Gly Pro
            100   105   110

Thr Thr Cys Val Leu Thr Ser Pro Ala Gly Asp Cys Asp Glu His Lys
            115   120   125

Val

<210> 2206
<211> 102
<212> PRT
<213> Homo sapiens

<400> 2206

Met Ala Ala Pro Cys Arg Cys Gly Trp Thr Trp Val Glu Leu Val Arg
1   5   10   15

Glu Ala Arg Cys Leu Asp Leu Leu Met Val Thr Gly Leu Ala Val Lys
            20   25   30

Ala His Leu Gly Ser Val Ser Thr Pro Trp Ser Ser His Val Ser Val
            35   40   45

Thr Phe Gln His Trp Pro Asp Gly Gly Asn Leu Leu Arg Ala His Ser
            50   55   60

Pro Ala Pro Trp His Ser Arg Ser Gln Leu Ser Leu Ile Arg Thr Arg
65   70   75   80

Cys Pro Leu Val Arg Leu Leu Val Ile Gly Phe Pro Ser Ser Pro Asn
                85   90   95

Val Pro Val Ile Ser His
            100

<210> 2207
<211> 555
<212> PRT
<213> Homo sapiens

<400> 2207

Met Ile Val Thr Gly Gly Leu Ala Trp Trp Asn Asp Phe Met Val Leu
1   5   10   15

Ala Cys Tyr Asn Ile Asn Asp Arg Gln Glu Glu Leu Arg Val Tyr Leu
            20   25   30

Arg Thr Ser Asn Leu Asp Asn Ala Phe Ala His Val Thr Lys Ala Gln
            35   40   45

Ala Glu Thr Leu Leu Leu Ser Val Phe Gln Asp Met Val Ile Val Phe
            50   55   60

Arg Ala Asp Cys Ser Ile Cys Leu Tyr Ser Ile Glu Arg Lys Ser Asp
65   70   75   80

Gly Pro Asn Thr Thr Ala Gly Ile Gln Val Leu Gln Glu Val Ser Met
                85   90   95

Ser Arg Tyr Ile Pro His Pro Phe Leu Val Val Ser Val Thr Leu Thr
            100   105   110

Ser Val Ser Thr Glu Asn Gly Ile Thr Leu Lys Met Pro Gln Gln Ala
            115   120   125

Arg Gly Ala Glu Ser Ile Met Leu Asn Leu Ala Gly Gln Leu Ile Met
            130   135   140

Met Gln Arg Asp Arg Ser Gly Pro Gln Ile Arg Glu Lys Asp Ser Asn
145   150   155   160

Pro Asn Asn Gln Arg Lys Leu Leu Pro Phe Cys Pro Pro Val Val Leu
            165   170   175

Ala Gln Ser Val Glu Asn Val Trp Thr Thr Cys Arg Ala Asn Lys Gln
            180   185   190

Lys Arg His Leu Leu Glu Ala Leu Trp Leu Ser Cys Gly Gly Ala Gly
            195   200   205

Met Lys Val Trp Leu Pro Leu Phe Pro Arg Asp His Arg Lys Pro His
            210   215   220

Ser Phe Leu Ser Gln Arg Ile Met Leu Pro Phe His Ile Asn Ile Tyr
225   230   235   240

Pro Leu Ala Val Leu Phe Glu Asp Ala Leu Val Leu Gly Ala Val Asn
            245   250   255

Asp Thr Leu Leu Tyr Asp Ser Leu Tyr Thr Arg Asn Asn Ala Arg Glu
            260   265   270

Gln Leu Glu Val Leu Phe Pro Phe Cys Val Val Glu Arg Thr Ser Gln
            275   280   285

Ile Tyr Leu His His Ile Leu Arg Gln Leu Leu Val Arg Asn Leu Gly
            290   295   300

Glu Gln Ala Leu Leu Leu Ala Gln Ser Cys Ala Thr Leu Pro Tyr Phe
305   310   315   320

Pro His Val Leu Glu Leu Met Leu His Glu Val Leu Glu Glu Glu Ala
            325   330   335

Thr Ser Arg Glu Pro Ile Pro Asp Pro Leu Leu Pro Thr Val Ala Lys
            340   345   350

Phe Ile Thr Glu Phe Pro Leu Phe Leu Gln Thr Val Val His Cys Ala
            355   360   365

Arg Lys Thr Glu Tyr Ala Leu Trp Asn Tyr Leu Phe Ala Ala Val Gly
            370   375   380

Asn Pro Lys Asp Leu Phe Glu Glu Cys Leu Met Ala Gln Asp Leu Asp
385   390   395   400

Thr Ala Ala Ser Tyr Leu Ile Ile Leu Gln Asn Met Glu Val Pro Ala
            405   410   415

Ile Ser Arg Gln His Ala Thr Leu Leu Phe Asn Thr Ala Leu Glu Gln
            420   425   430

Gly Lys Trp Asp Leu Cys Arg His Met Ile Arg Phe Leu Lys Ala Ile
            435   440   445

Gly Ser Gly Glu Ser Glu Thr Pro Pro Ser Thr Pro Thr Ala Gln Glu
            450   455   460

Pro Ser Ser Ser Gly Gly Phe Glu Phe Phe Arg Asn Arg Ser Ile Ser
465   470   475   480

Leu Ser Gln Ser Ala Glu Asn Val Pro Ala Ser Lys Phe Ser Leu Gln
            485   490   495

Lys Thr Leu Ser Met Pro Ser Gly Pro Ser Gly Lys Arg Trp Ser Lys
            500   505   510

Asp Ser Asp Cys Ala Glu Asn Met Tyr Ile Asp Met Met Leu Trp Arg
            515   520   525

His Ala Arg Arg Leu Leu Glu Asp Val Arg Leu Lys Asp Leu Gly Cys
            530   535   540

Phe Ala Ala Gln Leu Gly Phe Glu Leu Ile Ser
545   550   555

<210> 2208

<211> 1235

<212> PRT

<213> Homo sapiens

<400> 2208

Met Asp His Thr Ala Ser Gln Asn Ala Gln Asp Leu Ile Gly Ile Pro
1   5   10   15

His Leu Gly Val Ser Gly Ser Ser Thr Lys Trp His Ser Glu Leu Ser
            20   25   30

Pro Thr Glu Gly Pro His Ser Ala Gly Ser Ser Thr Pro Gly Phe Leu
            35   40   45

Ser Pro Met Ala Glu Leu Ser His Pro Ser Pro Pro Pro Ala Leu
     50   55   60

Gly Ser Leu Leu Gln Leu Pro Asp Gly Ser Pro Ser Trp Ser Met Leu
65   70   75   80

Glu Val Ala Ser Gly Pro Ala Ser Thr Gln Gln Ile Lys Ala Gly Val
             85   90   95

Pro Gly Arg Val His Asn Gly Val Ser Leu Pro Thr Phe Lys Asn Thr
            100   105   110

Glu Thr Ala Thr His Glu Ala Glu Pro Pro Leu Phe Gln Thr Ala Glu
            115   120   125

Ser Gly Ala Ile Glu Met Thr Ser Arg Lys Leu Ala Ser Ala Thr Ala
            130   135   140

Asn Asp Ser Ala Asn Pro Leu His Leu Ser Ala Ala Pro Glu Asn Ser
145   150   155   160

Arg Gly Pro Ala Leu Ser Ala Glu His Thr Ser Ser Leu Val Pro Ser
            165   170   175

Leu His Ile Thr Thr Leu Gly Gln Glu Gln Ala Ile Leu Ser Gly Ala
            180   185   190

Val Pro Ala Ser Pro Ser Thr Gly Thr Ala Asp Phe Pro Ser Ile Leu
            195   200   205

Thr Phe Leu Gln Pro Thr Glu Asn His Ala Ser Pro Ser Pro Val Pro
            210   215   220

Glu Met Pro Thr Leu Pro Ala Glu Gly Ser Asp Gly Ser Pro Pro Ala
225   230   235   240

Thr Arg Asp Leu Leu Leu Ser Ser Lys Val Pro Asn Leu Leu Ser Thr
            245   250   255

Ser Trp Thr Phe Pro Arg Trp Lys Lys Asp Ser Val Thr Ala Ile Leu
            260   265   270

Gly Lys Asn Glu Glu Ala Asn Val Thr Ile Pro Leu Gln Ala Phe Pro
            275   280   285

Arg Lys Glu Val Leu Ser Leu His Thr Val Asn Gly Phe Val Ser Asp
            290   295   300

Phe Ser Thr Gly Ser Val Ser Ser Pro Ile Ile Thr Ala Pro Arg Thr
305   310   315   320

Asn Pro Leu Pro Ser Gly Pro Pro Leu Pro Ser Ile Leu Ser Ile Gln
            325   330   335

Ala Thr Gln Thr Val Phe Pro Ser Leu Gly Phe Ser Ser Thr Lys Pro
         340   345   350

Glu Ala Tyr Ala Ala Ala Val Asp His Ser Gly Leu Pro Ala Ser Ala
         355   360   365

Ser Lys Gln Val Arg Ala Ser Pro Ser Ser Met Asp Val Tyr Asp Ser
         370   375   380

Leu Thr Ile Gly Asp Met Lys Lys Pro Ala Thr Thr Asp Val Phe Trp
385   390   395   400

Ser Ser Leu Ser Ala Glu Thr Gly Ser Leu Ser Thr Glu Ser Ile Ile
            405   410   415

Ser Gly Leu Gln Gln Gln Thr Asn Tyr Asp Leu Asn Gly His Thr Ile
         420   425   430

Ser Thr Thr Ser Trp Glu Thr His Leu Ala Pro Thr Ala Pro Pro Asn
         435   440   445

Gly Leu Thr Ser Ala Ala Asp Ala Ile Lys Ser Gln Asp Phe Lys Asp
     450   455   460

Thr Ala Gly His Ser Val Thr Ala Glu Gly Phe Ser Ile Gln Asp Leu
465   470   475   480

Val Leu Gly Thr Ser Ile Glu Gln Pro Val Gln Gln Ser Asp Met Thr
            485   490   495

Met Val Gly Ser His Ile Asp Leu Trp Pro Thr Ser Asn Asn Asn His
         500   505   510

Ser Arg Asp Phe Gln Thr Ala Glu Val Ala Tyr Tyr Ser Pro Thr Thr
         515   520   525

Arg His Ser Val Ser His Pro Gln Leu Gln Leu Pro Asn Gln Pro Ala
     530   535   540

His Pro Leu Leu Leu Thr Ser Pro Gly Pro Thr Ser Thr Gly Ser Leu
545   550   555   560

Gln Glu Met Leu Ser Asp Gly Thr Asp Thr Gly Ser Glu Ile Ser Ser
            565   570   575

Asp Ile Asn Ser Ser Pro Glu Arg Asn Ala Ser Thr Pro Phe Gln Asn
         580   585   590

Ile Leu Gly Tyr His Ser Ala Ala Glu Ser Ser Ile Ser Thr Ser Val
         595   600   605

Phe Pro Arg Thr Ser Ser Arg Val Leu Arg Ala Ser Gln His Pro Lys
         610   615   620

Lys Trp Thr Gly Ala Ala Thr Asn Ala Ala Asp Thr Val Ser Ser Lys
625   630   635   640

Val Gln Pro Thr Ala Ala Ala Ala Val Thr Leu Phe Leu Arg Lys Ser
                645   650   655

Ser Pro Pro Ala Leu Ser Ala Ala Leu Val Ala Lys Gly Thr Ser Ser
                660   665   670

Ser Pro Leu Ala Val Ala Ser Gly Pro Ala Lys Ser Ser Ser Met Thr
                675   680   685

Thr Leu Ala Lys Asn Val Thr Asn Lys Ala Ala Ser Gly Pro Lys Arg
        690   695   700

Thr Pro Gly Ala Val His Thr Ala Phe Pro Phe Thr Pro Thr Tyr Met
705   710   715   720

Tyr Ala Arg Thr Gly His Thr Thr Ser Thr His Thr Ala Met Gln Gly
                725   730   735

Asn Met Asp Thr Ala Ser Gly Leu Leu Ser Thr Thr Tyr Leu Pro Arg
                740   745   750

Lys Pro Gln Ala Met His Thr Gly Leu Pro Asn Pro Thr Asn Leu Glu
                755   760   765

Met Pro Arg Ala Ser Thr Pro Arg Pro Leu Thr Val Thr Ala Ala Leu
        770   775   780

Thr Ser Ile Thr Ala Ser Val Lys Ala Thr Arg Leu Pro Pro Leu Arg
785   790   795   800

Ala Glu Asn Thr Asp Ala Val Leu Pro Ala Ala Ser Ala Ala Val Val
                805   810   815

Thr Thr Gly Lys Met Ala Ser Asn Leu Glu Cys Gln Met Ser Ser Lys
                820   825   830

Leu Leu Val Lys Thr Val Leu Phe Leu Thr Gln Arg Arg Val Gln Ile
                835   840   845

Ser Glu Ser Leu Lys Phe Ser Ile Ala Lys Gly Leu Thr Gln Ala Leu
        850   855   860

Arg Lys Ala Phe His Gln Asn Asp Val Ser Ala His Val Asp Ile Leu
865   870   875   880

Glu Tyr Ser His Asn Val Thr Val Gly Tyr Tyr Ala Thr Lys Gly Lys
                885   890   895

Leu Val Tyr Leu Pro Ala Val Val Ile Glu Met Leu Gly Val Tyr Gly

                    900   905   910
Val Ser Asn Val Thr Ala Asp Leu Lys Gln His Thr Pro His Leu Gln
            915   920   925
Ser Val Ala Val Leu Ala Ser Pro Trp Asn Pro Gln Pro Ala Gly Tyr
            930   935   940
Phe Gln Leu Lys Thr Val Leu Gln Phe Val Ser Gln Ala Asp Asn Ile
945   950   955   960
Gln Ser Cys Lys Phe Ala Gln Thr Met Glu Gln Arg Leu Gln Lys Ala
                    965   970   975
Phe Gln Asp Ala Glu Arg Lys Val Leu Asn Thr Lys Ser Asn Leu Thr
            980   985   990
Ile Gln Ile Val Ser Thr Ser Asn Ala Ser Gln Ala Val Thr Leu Val
            995   1000   1005
Tyr Val Val Gly Asn Gln Ser Thr Phe Leu Asn Gly Thr Val Ala Ser
            1010   1015   1020
Ser Leu Leu Ser Gln Leu Ser Ala Glu Leu Val Gly Phe Tyr Leu Thr
1025   1030   1035   1040
Tyr Pro Pro Leu Thr Ile Ala Glu Pro Leu Glu Tyr Pro Asn Leu Asp
                    1045   1050   1055
Ile Ser Glu Thr Thr Arg Asp Tyr Trp Val Ile Thr Val Leu Gln Gly
            1060   1065   1070
Val Asp Asn Ser Leu Val Gly Leu His Asn Gln Ser Phe Ala Arg Val
            1075   1080   1085
Met Glu Gln Arg Leu Ala Gln Leu Phe Met Met Ser Gln Gln Gln Gly
            1090   1095   1100
Arg Arg Phe Lys Arg Ala Thr Thr Leu Gly Ser Tyr Thr Val Gln Met
1105   1110   1115   1120
Val Lys Met Gln Arg Val Pro Gly Pro Lys Asp Pro Ala Glu Leu Thr
                    1125   1130   1135
Tyr Tyr Thr Leu Tyr Asn Gly Lys Pro Leu Leu Gly Thr Ala Ala Ala
            1140   1145   1150
Lys Ile Leu Ser Thr Ile Asp Ser Gln Arg Met Ala Leu Thr Leu His
            1155   1160   1165
His Val Val Leu Leu Gln Ala Asp Pro Val Val Lys Asn Pro Pro Asn
            1170   1175   1180
Asn Leu Trp Ile Ile Ala Ala Val Leu Ala Pro Ile Ala Val Val Thr

```
                1185                      1190                      1195                      1200
Val Ile Ile Ile Ile Ile Thr Ala Val Leu Cys Arg Lys Asn Lys Asn
                        1205                      1210                      1215
Asp Phe Lys Pro Asp Thr Met Ile Asn Leu Pro Gln Arg Ala Lys Gln
                1220                      1225                      1230
Val Ala Gln
                1235
```

```
<210> 2209
<211> 155
<212> PRT
<213> Homo sapiens


<400> 2209
Met Ser Ile Thr Ser Thr Val Lys Ala Ser Leu Cys Ser Gly Val Val
1               5                       10                      15
Ser His Phe Pro Lys Ile Asn Thr Val Asn Thr Asp Glu His Cys Cys
                20                      25                      30
Leu Tyr Val Met Ser Glu Ile Pro His Pro Phe Met His Lys Tyr Val
        35                      40                      45
Cys Ile Tyr Ala Tyr Thr Phe Thr His Ile Tyr Arg His Leu Phe Ile
        50                      55                      60
Tyr Thr Cys Lys Tyr Val Tyr Tyr Ile His Val Tyr Cys Ile Gly Leu
65                      70                      75                      80
Glu Lys Ser Lys His Phe Lys Ser Met Leu Ile Ile Cys Ile Cys Leu
                85                      90                      95
Val Asn Thr Ser Arg Gln Arg Gln Val Lys Gln Arg Ser Ser Ile Tyr
                100                     105                     110
Phe Phe Val Ser Thr Ile Ala Arg Leu Arg Ser Val Met Ala Leu Leu
        115                     120                     125
Gln Leu His Leu Ala Phe Ser Ile Thr Cys Val Ile Lys Phe Met Thr
        130                     135                     140
Lys Ser Ser Cys Asn Cys Leu Cys Cys Leu Pro
145                     150                     155
```

<210> 2210

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2210

```
Met Thr Asp Leu Trp Thr Arg Gly Phe Pro Ala Ser Pro Leu Ile Pro
1               5                   10                  15
Ala Asp Leu Trp Ala Ser Phe His Gly Tyr Arg Arg Lys Ser Lys Val
                20                  25                  30
Ser Leu Gln Ala Ala Val Pro Leu Gly Ser Gln Leu Cys Pro Ser Phe
                35                  40                  45
Ser Ser Pro Gln Gly Gly Cys Pro Ile Pro Glu Pro Pro Trp Ala Pro
            50                  55                  60
Ala Ser Ala Gly Pro Tyr Val Cys Gly Leu Gly Phe Cys Pro Pro Val
65                  70                  75                  80
Leu Val Leu Ile Cys Ser Leu Trp Phe Cys Ser Phe Phe His Pro Pro
                85                  90                  95
Thr His Leu Gly Pro Ser Ser His
                100
```

<210> 2211

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2211

```
Met Ser Ser Asp Gln Ala Gln His Cys His Gln Asp Asp Lys Gly Gln
1               5                   10                  15
Gly Val Arg Ser Gln Pro Pro Pro Thr Phe Leu Ser Ser Gly Leu Arg
                20                  25                  30
Arg Arg Lys Gly Pro Thr Lys Thr Pro Glu Pro Glu Ser Ser Glu Ala
                35                  40                  45
Pro Gln Asp Pro Leu Asn Trp Phe Gly Ile Leu Val Pro His Ser Leu
```

```
            50                      55                      60
Arg Gln Ala Gln Ala Ser Phe Arg Asp Gly Glu Trp Thr Val Leu Phe
 65                      70                      75                      80
Gly Ser Val Ala Leu Arg Pro Ser Ile His Arg Glu His Leu Ser Thr
                        85                      90                      95
Ala Ala Met Ala Gly Val Ser Leu
                       100
```

<210> 2212

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2212

```
Met Arg Arg Ala Gly Ser Thr Arg Cys Ser Leu Ala Pro Gly Arg Lys
 1                       5                      10                      15
Ala Glu Glu Pro Gly Asn His Val Pro Ser Trp Lys Glu Ala Leu Arg
                        20                      25                      30
Thr Leu Leu Pro Arg Asn Pro Glu Gln Arg Leu Ala Gly Leu Gln Glu
                        35                      40                      45
Gln Ser Arg Val Arg Ala Val Ser Trp Gln Arg Ile Lys Tyr Pro Gly
            50                      55                      60
His Ile Glu Glu Thr Cys Glu Asp Ser Asn Gly Glu Gln Phe Glu Ser
 65                      70                      75                      80
Glu Lys Pro Val Leu Glu Ala Arg Lys Phe Lys Ile Lys Val Leu Ala
                        85                      90                      95
Ser Ser Val Ser Ala Glu Asp Leu Ile Ser Leu Leu Ser Arg Trp His
                       100                     105                     110
Leu Val Ala Leu Pro Ser Arg Glu
                       115                     120
```

<210> 2213

<211> 106

<212> PRT

<213> Homo sapiens

<400> 2213

```
Met Ser His His Ala Arg Leu Ser Leu Leu Asn Phe Arg Thr Ile Thr
1               5                   10                  15
Val Tyr Phe Tyr Phe Leu Asn Tyr His Ile Val Lys Leu Ala Leu Trp
            20                  25                  30
Leu Cys Ser Phe Met Cys Phe Asp Val Cys Ile Asp Gly Cys His Asn
        35                  40                  45
Gln Glu Arg Glu His Ser Pro Lys Pro Arg Asp Val His Gly Ala Ile
    50                  55                  60
Leu His Ser Met Phe Leu Gly Ser His Ser Ala Pro Ser Pro Lys His
65                  70                  75                  80
Gly Ala Pro Ala Cys Arg Cys His Arg Arg Gln His His Gly Leu Leu
                85                  90                  95
Asn Thr Val Arg His Ser Ser Ser Lys Gly
                100                 105
```

<210> 2214
<211> 108
<212> PRT
<213> Homo sapiens

<400> 2214

```
Met Tyr Ser Leu Asn Gln Ser Phe Phe Cys Pro Gln Leu Glu Ile Phe
1               5                   10                  15
Leu Ala Gln Arg Ala Val Glu Leu Ser Glu Glu Ala Asp Val Leu Ser
            20                  25                  30
Val Ser Gln Phe Gln Leu Ala Pro Ala Ile Leu Gln Gly Gln Thr Lys
        35                  40                  45
Glu Lys Met Val Thr Met Val Ser Val Leu Glu Asp Leu Ile Gly Lys
    50                  55                  60
Leu Thr Ser Leu Gln Leu Gln His Leu Phe Met Ile Leu Ala Ser Pro
65                  70                  75                  80
Arg Ser Gly Phe Pro Leu Met Gln Gly Ser Ala Ile Leu Ser Ser Ser
```

```
                    85                    90                    95
Ala Ser Leu Tyr Ser Ser Ser Cys Ser Met Thr Pro
                   100                   105
```

<210> 2215
<211> 109
<212> PRT
<213> Homo sapiens

<400> 2215

```
Met His His Ser Trp Leu Ile His Pro Leu Leu Asp Gly His Leu Ala
 1               5                    10                    15
Cys Phe Gln Val Phe Ala Val Ser Asp Thr Ala Ser Ile Asp Cys Phe
                20                    25                    30
Leu Ser Val Ser Glu Pro Leu Ser Arg Leu Leu Gly Lys Gln Cys Pro
           35                    40                    45
Ser Phe Phe Pro Ser Phe Trp Ile Gly Phe Leu Pro Ala Glu Val Leu
        50                    55                    60
Gly Val Trp Phe Gly His Gly Cys Gly Ser Thr Trp Ser Leu Ser Ser
 65                    70                    75                    80
Gly Leu Ile Gln Arg Gly Arg Ser Gly Glu Glu Gly Ser Val Gln Gly
                85                    90                    95
Lys Ser Arg Leu Gly His Gly Val Ser Leu Val Gly Gln
               100                   105
```

<210> 2216
<211> 101
<212> PRT
<213> Homo sapiens

<400> 2216

```
Met Glu Ile Gln Met Ser Lys Ser Ser Gln Asn Ser Lys Leu Leu Ile
 1               5                    10                    15
Pro Val Leu Arg Leu Cys Ser Tyr Ser Asp Glu Ser Val Val Leu Val
```

```
                20                      25                      30
Arg Gly Leu Ala Arg Arg Pro Val Gly Trp Asn Gly Ala Arg Lys Val
            35                      40                      45
Asn His Lys Leu Leu Val His Arg Gly Thr Arg Ile Ile Gln Gly Gly
        50                      55                      60
Gly Ile Val Leu Ser Thr Gly Gly Ser Gly Asn Arg Val Phe Thr Gly
65                      70                      75                      80
Lys Met Val Asn Val Asn Pro Cys Ile Ile Cys Lys Lys Leu Phe Glu
                    85                      90                      95
Thr Gly His Lys Asn
                100
```

<210> 2217

<211> 809

<212> PRT

<213> Homo sapiens

<400> 2217

```
Met Leu Tyr Pro Ala Leu Ala Lys Glu Ser Gly Tyr Ile Ala Pro Gln
 1               5                      10                      15
Gly Ala Cys Asn Lys Met Ala Thr Ile Asp Glu Asn Gly Asn Gln Asn
                20                      25                      30
Gly Ser Gly Arg Pro Gly Phe Ala Phe Cys Gln Pro Leu Glu His Asp
            35                      40                      45
Leu Leu Ser Pro Val Glu Lys Lys Pro Glu Ala Thr Ala Lys Tyr Val
        50                      55                      60
Pro Ser Lys Val His Phe Cys Ser Val Pro Glu Asn Glu Glu Asp Ala
65                      70                      75                      80
Ser Leu Lys Arg His Leu Thr Pro Pro Gln Gly Asn Ser Pro His Ser
                    85                      90                      95
Asn Glu Arg Lys Ser Thr His Ser Asn Lys Pro Ser Ser His Pro His
                100                     105                     110
Ser Leu Lys Cys Pro Gln Ala Gln Ala Trp Gln Ala Gly Glu Asp Lys
            115                     120                     125
Arg Ser Ser Arg Leu Ser Glu Pro Trp Glu Gly Asp Phe Gln Glu Asp
```

```
         130                    135                    140
His Asn Ala Asn Leu Trp Arg Arg Leu Glu Arg Glu Gly Leu Gly Gln
145                    150                    155                    160
Ser Leu Ser Gly Asn Phe Gly Lys Thr Lys Ser Ala Phe Ser Ser Leu
                       165                    170                    175
Gln Asn Ile Pro Glu Ser Leu Arg Arg His Ser Ser Leu Glu Leu Gly
                       180                    185                    190
Arg Gly Thr Gln Glu Gly Tyr Pro Gly Gly Arg Pro Thr Cys Ala Val
                       195                    200                    205
Asn Thr Lys Ala Glu Asp Pro Gly Arg Lys Ala Ala Pro Asp Leu Gly
                       210                    215                    220
Ser His Leu Asp Arg Gln Val Ser Tyr Pro Arg Pro Glu Gly Arg Thr
225                    230                    235                    240
Gly Ala Ser Ala Ser Phe Asn Ser Thr Asp Pro Ser Pro Glu Glu Pro
                       245                    250                    255
Pro Ala Pro Ser His Pro His Thr Ser Ser Leu Gly Arg Arg Gly Pro
                       260                    265                    270
Gly Pro Gly Ser Ala Ser Ala Leu Gln Gly Phe Gln Tyr Gly Lys Pro
                       275                    280                    285
His Cys Ser Val Leu Glu Lys Val Ser Lys Phe Glu Gln Arg Glu Gln
                       290                    295                    300
Gly Ser Gln Arg Pro Ser Val Gly Gly Ser Gly Phe Gly His Asn Tyr
305                    310                    315                    320
Arg Pro His Arg Thr Val Ser Thr Ser Ser Thr Ser Gly Asn Asp Phe
                       325                    330                    335
Glu Glu Thr Lys Ala His Ile Arg Phe Ser Glu Ser Ala Glu Pro Leu
                       340                    345                    350
Gly Asn Gly Glu Gln His Phe Lys Asn Gly Glu Leu Lys Leu Glu Glu
                       355                    360                    365
Ala Ser Arg Gln Pro Cys Gly Gln Gln Leu Ser Gly Gly Ala Ser Asp
                       370                    375                    380
Ser Gly Arg Gly Pro Gln Arg Pro Asp Ala Arg Leu Leu Arg Ser Gln
385                    390                    395                    400
Ser Thr Phe Gln Leu Ser Ser Glu Pro Glu Arg Glu Pro Glu Trp Arg
                       405                    410                    415
Asp Arg Pro Gly Ser Pro Glu Ser Pro Leu Leu Asp Ala Pro Phe Ser
```

```
                420                      425                      430
Arg Ala Tyr Arg Asn Ser Ile Lys Asp Ala Gln Ser Arg Val Leu Gly
                435                      440                      445
Ala Thr Ser Phe Arg Arg Arg Asp Leu Glu Leu Gly Ala Pro Val Ala
                450                      455                      460
Ser Arg Ser Trp Arg Pro Arg Pro Ser Ser Ala His Val Gly Leu Arg
465                      470                      475                      480
Ser Pro Glu Ala Ser Ala Ser Ala Ser Pro His Thr Pro Arg Glu Trp
                485                      490                      495
His Ser Val Thr Pro Ala Glu Gly Asp Leu Ala Arg Pro Val Pro Pro
                500                      505                      510
Ala Ala Arg Arg Gly Ala Arg Arg Arg Leu Thr Pro Glu Gln Lys Lys
                515                      520                      525
Arg Ser Tyr Ser Glu Pro Glu Lys Met Asn Glu Val Gly Ile Val Glu
                530                      535                      540
Glu Ala Glu Pro Ala Pro Leu Gly Pro Gln Arg Asn Gly Met Arg Phe
545                      550                      555                      560
Pro Glu Ser Ser Val Ala Asp Arg Arg Arg Leu Phe Glu Arg Asp Gly
                565                      570                      575
Lys Ala Cys Ser Thr Leu Ser Leu Ser Gly Pro Glu Leu Lys Gln Phe
                580                      585                      590
Gln Gln Ser Ala Leu Ala Asp Tyr Ile Gln Arg Lys Thr Gly Lys Arg
                595                      600                      605
Pro Thr Ser Ala Ala Gly Cys Ser Leu Gln Glu Pro Gly Pro Leu Arg
                610                      615                      620
Glu Arg Ala Gln Ser Ala Tyr Leu Gln Pro Gly Pro Ala Ala Leu Glu
625                      630                      635                      640
Gly Ser Gly Leu Ala Ser Ala Ser Ser Leu Ser Ser Leu Arg Glu Pro
                645                      650                      655
Ser Leu Gln Pro Arg Arg Glu Ala Thr Leu Leu Pro Ala Thr Val Ala
                660                      665                      670
Glu Thr Gln Gln Ala Pro Arg Asp Arg Ser Ser Ser Phe Ala Gly Gly
                675                      680                      685
Arg Arg Leu Gly Glu Arg Arg Arg Gly Asp Leu Leu Ser Gly Ala Asn
                690                      695                      700
Gly Gly Thr Arg Gly Thr Gln Arg Gly Asp Glu Thr Pro Arg Glu Pro
```

```
705                     710                     715                     720
Ser Ser Trp Gly Ala Arg Ala Gly Lys Ser Met Ser Ala Glu Asp Leu
                    725                     730                     735
Leu Glu Arg Ser Asp Val Leu Ala Gly Pro Val His Val Arg Ser Arg
                    740                     745                     750
Ser Ser Pro Ala Thr Ala Asp Lys Arg Gln Val Arg Ala Thr Ser Lys
                    755                     760                     765
Ser Trp Pro Arg Thr Val Pro Ser Ser Leu Glu Ala Leu Val Gly Leu
                    770                     775                     780
Pro Asn Pro Pro His Ser His Pro Leu Ser Gln Phe Ser Phe Pro Cys
785                     790                     795                     800
Asp Tyr Arg Lys Val Ala Phe Val Phe
                    805
```

<210> 2218

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2218

```
Met Val Ile Phe Gln Phe Ile Ser Cys Asp Leu Ser Ala Val Phe Asn
 1               5                   10                  15
Val Leu Asn Phe Phe Ile Phe Arg Asn Arg Val Ser Leu Cys Cys Pro
                20                  25                  30
Cys Trp Ser Gln Thr Pro Gly Leu Lys Cys Ser Cys Leu Gly Leu Pro
            35                  40                  45
Lys His Trp Asp Tyr Arg His Glu Pro Leu Leu Pro Gly Leu Cys Leu
        50                  55                  60
Met Phe Leu Thr Gly Leu Leu Leu Asn Ser Phe Asn Leu Ala Ser Leu
65                  70                  75                  80
Ile Pro Leu Ala Pro Val Ser Leu Leu Pro Pro Arg Glu Leu Leu Cys
                85                  90                  95
Pro Pro Leu Phe Pro Asn Tyr Gly His Val Ile Lys Ala Phe Phe Pro
                100                 105                 110
Arg Pro Leu Leu Pro Arg Cys Asp Tyr Leu His Ser Ser Asp Leu Ile
```

```
                115                    120                    125
Tyr Thr Pro Asp Leu Leu Gln Thr Val Phe
        130                    135
```

<210> 2219

<211> 179

<212> PRT

<213> Homo sapiens

<400> 2219

```
Met Leu Asn Trp Ile Ile Arg Leu Gln Ala Ile Leu Glu Ile Ile Thr
1               5                   10                  15
Asn Glu Thr Gly Arg Ala Leu Thr Val Leu Ala Trp Gln Glu Thr Gln
            20                  25                  30
Met Arg Asn Ala Ile Tyr Gln Asn Arg Leu Ala Leu Asp Tyr Leu Leu
        35                  40                  45
Val Ala Glu Gly Gly Val Cys Gly Lys Phe Asn Leu Thr Asn Cys Cys
        50                  55                  60
Leu Gln Ile Asn Asp Gln Gly Gln Val Val Lys Asn Ile Val Arg Asp
65                  70                  75                  80
Met Thr Lys Val Ala His Val Pro Val Gln Val Trp His Glu Phe Asn
                85                  90                  95
Pro Glu Ser Leu Phe Glu Lys Trp Phe Pro Ala Ile Ala Gly Phe Lys
            100                 105                 110
Thr Leu Ile Val Gly Gly Leu Leu Val Ile Gly Ala Cys Leu Leu Leu
            115                 120                 125
Pro Cys Val Leu Pro Leu Leu Phe Gln Met Ile Lys Gly Phe Val Ala
        130                 135                 140
Thr Leu Val His Gln Lys Thr Ser Ala His Val Cys Tyr Ile Asn Gln
145                 150                 155                 160
Tyr Arg Ser Ile Ser Pro Ile Asp Ser Lys Ser Lys Asp Glu Ser Glu
                165                 170                 175
Asn Ser His
```

<210> 2220

<211> 181

<212> PRT

<213> Homo sapiens

<400> 2220

```
Met Gln Arg Thr Gly Phe Gln Lys Pro Gln Lys Leu Glu Glu Pro His
1               5                   10                  15
Arg His Ala Leu Cys Pro Pro Thr Val Ser Gly Ala Ser Ser Asn Pro
                20                  25                  30
Cys Ser Glu Thr Tyr His Gly Lys Phe Ala Asn Ser Glu Val Glu Val
            35                  40                  45
Lys Ser Ile Val Asp Phe Val Lys Asp His Gly Asn Ile Lys Ala Phe
        50                  55                  60
Ile Ser Ile His Ser Tyr Ser Gln Leu Leu Met Tyr Pro Tyr Gly Tyr
65                  70                  75                  80
Lys Thr Glu Pro Val Pro Asp Gln Asp Glu Leu Asp Leu Leu Ser Lys
                85                  90                  95
Ala Ala Val Thr Ala Leu Ala Ser Leu Tyr Gly Thr Lys Phe Asn Tyr
                100                 105                 110
Gly Ser Ile Ile Lys Ala Ile Tyr Gln Ala Ser Gly Ser Thr Ile Asp
            115                 120                 125
Trp Thr Tyr Ser Gln Gly Ile Lys Tyr Ser Phe Thr Phe Glu Leu Arg
        130                 135                 140
Asp Thr Gly Arg Tyr Gly Phe Leu Leu Pro Ala Ser Gln Ile Ile Pro
145                 150                 155                 160
Thr Ala Lys Glu Thr Trp Leu Ala Leu Leu Thr Ile Met Glu His Thr
                165                 170                 175
Leu Asn His Pro Tyr
                180
```


<210> 2221

<211> 223

<212> PRT

<213> Homo sapiens

<400> 2221

```
Met Gly Ala Gly Gly Gly Ser Gln His Gly Leu Arg Gln Val Ser Arg
 1             5                  10                  15
Met Glu Met Gly Gly Gly Pro Ser Gly Ser Ala Met Cys Ser Glu Ala
                 20                  25                  30
Gly Val Gly Val Arg Thr Pro Pro Gln Gly Ala Gly Ala Gln Ser Trp
             35                  40                  45
Leu Gly Ser Leu Pro Gly Cys Gly Ala Gly Ala Gly Pro Trp Ala Ala
         50                  55                  60
Leu Gly Arg Arg Arg Ile Gly Arg Leu Ala Leu Trp Ala Ala Pro Arg
65                  70                  75                  80
Arg Ser Gly Gly Pro Arg Arg Thr Ser Glu Val Gly Gly Ser Arg Pro
                 85                  90                  95
His Arg Gly Met Phe Trp Arg Ser Arg Glu Gln Ser Pro Arg Ala Arg
             100                 105                 110
Gly Gly Arg Gly Thr Val Gln Val Pro Gly Ala Gly Val Ser Gly Thr
         115                 120                 125
Val Pro Gly Thr Arg Trp Ser Ala Val Gly Pro Cys Gly Glu Arg Arg
         130                 135                 140
Pro Leu Ala Arg Gly Arg Arg Thr Glu Ala Gly Gly Glu Gly Glu Pro
145                 150                 155                 160
Gly Arg Gly Thr Val Val Pro Gly Ala Ala Leu Arg Val Gly Thr Trp
                 165                 170                 175
Arg Ser Cys Ala Pro Trp Arg Gly Gly Gly Glu Ala Gly Glu Arg Pro
             180                 185                 190
Trp Leu Leu Pro Pro Gly Val Pro Arg Val Thr Ala Ala Ala Ala Ile
             195                 200                 205
Leu Pro Asn Thr Asp Pro Pro Pro Ala Pro Ala Asp Ser Gly Val
         210                 215                 220
```

<210> 2222

<211> 107

<212> PRT

<213> Homo sapiens

<400> 2222

```
Met Phe Leu Thr Cys Ser Trp Gly Phe Ser Gln Gln Tyr Ser Gly His
1               5                   10                  15
Phe Pro Ser Cys Gly Ser Thr Val Cys Asn Ala Gly Leu Gln Val Ala
                20                  25                  30
Glu Glu Asp Gly Ala Glu Glu Ser His Met Gly Val Cys Leu Ala Gln
            35                  40                  45
Gly Gly Ser Gly Cys Ala Phe Leu Leu Pro Thr Ser Leu Thr Arg Pro
        50                  55                  60
His Pro Thr Ala Arg Glu Ala Gly Glu Cys Gly Leu Asp Leu Asn Pro
65                  70                  75                  80
Arg Arg Arg Asn Gly Phe Leu Asn Ser Trp Pro Phe Thr Asp Thr Lys
                85                  90                  95
Arg Val Lys Val Thr Cys Arg Gly Asp Glu Phe
                100                 105
```

<210> 2223

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2223

```
Met Arg Gly His Ala Asp Ser Val Thr Gly Leu Ser Leu Ser Ser Glu
1               5                   10                  15
Gly Ser Tyr Leu Leu Ser Asn Ala Met Asp Asn Thr Val Arg Val Trp
                20                  25                  30
Asp Val Arg Pro Phe Ala Pro Lys Glu Arg Cys Val Lys Ile Phe Gln
            35                  40                  45
Gly Asn Val His Asn Phe Glu Lys Asn Leu Leu Arg Cys Ser Trp Ser
        50                  55                  60
Pro Asp Gly Ser Lys Ile Ala Ala Gly Ser Ala Asp Arg Phe Val Tyr
65                  70                  75                  80
Val Trp Asp Thr Thr Ser Arg Arg Ile Leu Tyr Lys Leu Pro Gly His
```

```
                    85                      90                      95
Ala Gly Ser Ile Asn Glu Val Ala Phe His Pro Asp Glu Pro Ile Ile
            100                     105                     110
Ile Ser Ala Ser Ser Asp Lys Arg Leu Tyr Met Gly Glu Ile Gln
        115                     120                     125
```

<210> 2224

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2224

```
Met Arg Ala Phe Leu Pro Ser Ala Arg His Ser Gly Phe Leu Thr Cys
 1               5                      10                      15
Thr Leu Thr Ala Arg Gln Asn Leu Gly Val His Lys Lys Asp Leu Arg
                20                      25                      30
Trp Asp Met Glu Glu Gln Gly Pro Leu Leu Val Cys Pro Pro Ser Pro
            35                      40                      45
His Leu His Ser Ser Pro Asn Leu Pro Leu Gln Ser Arg Glu Lys Thr
        50                      55                      60
Ser Glu Asn Ile Arg Ser Asp Ser Thr Glu Ala Gln Thr Gly Gln Gln
65                      70                      75                      80
Glu Cys Ala Gly His Trp Glu Met Trp Ser Arg Ser Ser His Ser Pro
                85                      90                      95
Tyr Arg Pro Pro Thr Asn Tyr Arg Asn Ala Lys Ser Ala Gln Pro Leu
            100                     105                     110
Pro Thr
```

<210> 2225

<211> 226

<212> PRT

<213> Homo sapiens

<400> 2225

Met Tyr Cys Cys Arg Val Thr Ser Gln Ser Leu Gln Leu Pro Tyr Gly
1   5   10   15

Pro Ser Val Met Val Gly Phe Ser Pro Leu Gln Lys His Gly Leu Val
            20   25   30

Ile Ile Pro Asp Gly Thr Pro Asn Gly Asp Val Ser His Glu Pro Val
        35   40   45

Ala Gly Ala Ile Thr Val Val Ser Gln Glu Ala Ala Gln Val Leu Glu
    50   55   60

Ser Ala Gly Glu Gly Pro Leu Asp Val Arg Leu Arg Lys Leu Ala Gly
65   70   75   80

Glu Lys Glu Glu Leu Leu Ser Gln Ile Arg Lys Leu Lys Leu Gln Leu
                85   90   95

Glu Glu Glu Arg Gln Lys Cys Ser Arg Asn Asp Gly Thr Val Gly Asp
                100   105   110

Leu Ala Gly Leu Gln Asn Gly Ser Asp Leu Gln Phe Ile Glu Met Gln
                115   120   125

Arg Asp Ala Asn Arg Gln Ile Ser Glu Tyr Lys Phe Lys Leu Ser Lys
    130   135   140

Ala Glu Gln Asp Ile Thr Thr Leu Glu Gln Ser Ile Ser Arg Leu Glu
145   150   155   160

Gly Gln Val Leu Arg Tyr Lys Thr Ala Ala Glu Asn Ala Glu Lys Val
                165   170   175

Glu Asp Glu Leu Lys Ala Glu Lys Arg Lys Leu Gln Arg Glu Leu Arg
                180   185   190

Thr Ala Leu Asp Lys Ile Glu Glu Met Glu Met Thr Asn Ser His Leu
            195   200   205

Ala Lys Arg Leu Glu Lys Met Lys Ala Asn Arg Thr Ala Leu Leu Ala
    210   215   220

Gln Gln
225

<210> 2226

<211> 462

<212> PRT

<213> Homo sapiens

<400> 2226

```
Met Phe Ile Ser Asp Ala Phe Gly Glu Gly Glu Leu Thr Pro Ile Ala
 1               5                  10                  15
Val Asp Thr Thr Ser Gln Arg Asn Ala Ser Pro Asn Ser Glu Pro Cys
                20                  25                  30
Ser Ser Asp Ser Val Ser Glu Pro Glu Cys Thr Thr Asp Ser Ser Ser
            35                  40                  45
Ser Lys Glu His Thr Ser Ser Ser Ala Ile Pro Gly Gly Val Asp Ile
        50                  55                  60
Met Val Ser Glu Asp Met Lys Leu Thr Asp Ser Glu Leu Gly Lys Leu
65                  70                  75                  80
Ala Asn Asn Ile Gln Glu Leu Leu Tyr Ser Ala Ser Asp Ile Cys His
                85                  90                  95
Asp Arg Ala Val Lys Phe Leu Met Ser Arg Ala Lys Asp Gly Phe Leu
                100                 105                 110
Glu Lys Leu Asn Ser Met Glu Phe Ile Thr Leu Ser Arg Leu Met Glu
            115                 120                 125
Thr Phe Ile Leu Asp Thr Glu Gln Ile Cys Gly Arg Lys Ser Thr Ser
        130                 135                 140
Leu Leu Gly Ala Leu Gln Ser Gln Ala Ile Lys Phe Val Asn Arg Phe
145                 150                 155                 160
His Glu Glu Arg Lys Thr Lys Leu Ser Leu Leu Leu Asp Asn Glu Arg
                165                 170                 175
Trp Lys Gln Ala Asp Val Pro Ala Glu Phe Gln Asp Leu Val Asp Ser
                180                 185                 190
Leu Ser Asp Gly Lys Ile Ala Leu Pro Glu Lys Lys Ser Gly Ala Thr
            195                 200                 205
Glu Glu Arg Lys Pro Ala Glu Val Leu Ile Val Glu Gly Gln Gln Tyr
        210                 215                 220
Ala Val Val Gly Thr Val Leu Leu Leu Ile Arg Ile Ile Leu Glu Tyr
225                 230                 235                 240
Cys Gln Cys Val Asp Asn Ile Pro Ser Val Thr Thr Asp Met Leu Thr
                245                 250                 255
Arg Leu Ser Asp Leu Leu Lys Tyr Phe Asn Ser Arg Ser Cys Gln Leu
```

```
                    260                      265                      270
Val Leu Gly Ala Gly Ala Leu Gln Val Val Gly Leu Lys Thr Ile Thr
            275                      280                      285
Thr Lys Asn Leu Ala Leu Ser Ser Arg Cys Leu Gln Leu Ile Val His
        290                      295          ·           300
Tyr Ile Pro Val Ile Arg Ala His Phe Glu Ala Arg Leu Pro Pro Lys
305                      310                      315                      320
Gln Tyr Ser Met Leu Arg His Phe Asp His Ile Thr Lys Asp Tyr His
                    325                      330                      335
Asp His Ile Ala Glu Ile Ser Ala Lys Leu Val Ala Ile Met Asp Ser
                340                      345                      350
Leu Phe Asp Lys Leu Leu Ser Lys Tyr Glu Val Lys Ala Pro Val Pro
            355                      360                      365
Ser Ala Cys Phe Arg Asn Ile Cys Lys Gln Met Thr Lys Met His Glu
        370                      375                      380
Ala Ile Phe Asp Leu Leu Pro Glu Glu Gln Thr Gln Met Leu Phe Leu
385                      390                      395                      400
Arg Ile Asn Ala Ser Tyr Lys Leu His Leu Lys Lys Gln Leu Ser His
                    405                      410                      415
Leu Asn Val Ile Asn Asp Gly Gly Pro Gln Asn Gly Leu Val Thr Ala
                420                      425                      430
Asp Val Ala Phe Tyr Thr Gly Asn Leu Gln Ala Leu Lys Gly Leu Lys
            435                      440                      445
Asp Leu Asp Leu Asn Met Ala Glu Ile Trp Glu Gln Lys Arg
        450                      455                      460
```

<210> 2227

<211> 234

<212> PRT

<213> Homo sapiens

<400> 2227

```
Met Arg Ala Pro Leu Cys Leu Leu Leu Val Ala His Ala Val Asp
  1            5                      10                      15
Met Leu Ala Leu Asn Arg Arg Lys Lys Gln Val Gly Thr Gly Leu Gly
```

```
              20                    25                    30
Gly Asn Cys Thr Gly Cys Ile Ile Cys Ser Glu Glu Asn Gly Cys Ser
              35                    40                    45
Thr Cys Gln Gln Arg Leu Phe Leu Phe Ile Arg Arg Glu Gly Ile Arg
         50                    55                    60
Gln Tyr Gly Lys Cys Leu His Asp Cys Pro Pro Gly Tyr Phe Gly Ile
65                    70                    75                    80
Arg Gly Gln Glu Val Asn Arg Cys Lys Lys Cys Gly Ala Thr Cys Glu
                   85                    90                    95
```

```
Ser Cys Phe Ser Gln Asp Phe Cys Ile Arg Cys Lys Arg Gln Phe Tyr
                   100                   105                   110
Leu Tyr Lys Gly Lys Cys Leu Pro Thr Cys Pro Pro Gly Thr Leu Ala
              115                   120                   125
His Gln Asn Thr Arg Glu Cys Gln Gly Glu Cys Glu Leu Gly Pro Trp
         130                   135                   140
Gly Gly Trp Ser Pro Cys Thr His Asn Gly Lys Thr Cys Gly Ser Ala
145                   150                   155                   160
Trp Gly Leu Glu Ser Arg Val Arg Glu Ala Gly Arg Ala Gly His Glu
                   165                   170                   175
Glu Ala Ala Thr Cys Gln Val Leu Ser Glu Ser Arg Lys Cys Pro Ile
              180                   185                   190
Gln Arg Pro Cys Pro Gly Glu Arg Ser Pro Gly Gln Lys Lys Gly Arg
         195                   200                   205
Lys Asp Arg Arg Pro Arg Lys Asp Arg Lys Leu Asp Arg Arg Leu Asp
         210                   215                   220
Val Arg Pro Arg Gln Pro Gly Leu Gln Pro
225                   230
```

Met Leu Trp Asn Phe Lys Pro His Ala Arg Ala Tyr Arg Tyr Val Gly
1   5   10   15

His Lys Asp Val Val Thr Ser Val Gln Phe Ser Pro His Gly Asn Leu
                20   25   30

Leu Ala Ser Ala Ser Arg Asp Arg Thr Val Arg Leu Trp Ile Pro Asp
        35   40   45

Lys Arg Gly Lys Phe Ser Glu Phe Lys Ala His Thr Ala Pro Val Arg
        50   55   60

Ser Val Asp Phe Ser Ala Asp Gly Gln Phe Leu Ala Thr Ala Ser Glu
65   70   75   80

Asp Lys Ser Ile Lys Val Trp Ser Met Tyr Arg Gln Arg Phe Leu Tyr
                85   90   95

Ser Leu Tyr Arg His Thr His Trp Val Arg Cys Ala Lys Phe Ser Pro
            100   105   110

Asp Gly Arg Leu Ile Val Ser Cys Ser Glu Asp Lys Thr Ile Lys Ile
            115   120   125

Trp Asp Thr Thr Asn Lys Gln Cys Val Asn Asn Phe Ser Asp Ser Val
        130   135   140

Gly Phe Ala Asn Phe Val Asp Phe Asn Pro Ser Gly Thr Cys Ile Ala
145   150   155   160

Ser Ala Gly Ser Asp Gln Thr Val Lys Val Trp Asp Val Arg Val Asn
                165   170   175

Lys Leu Leu Gln His Tyr Gln Val His Ser Gly Gly Val Asn Cys Ile
            180   185   190

Ser Phe His Pro Ser Gly Asn Tyr Leu Ile Thr Ala Ser Ser Asp Gly
            195   200   205

Thr Leu Lys Ile Leu Asp Leu Leu Glu Gly Arg Leu Ile Tyr Thr Leu
        210   215   220

Gln Gly His Thr Gly Pro Ala Phe Thr Val Ser Phe Ser Lys Gly Gly
225   230   235   240

Glu Leu Phe Ala Ser Gly Gly Ala Asp Thr Gln Val Leu Leu Trp Arg
                245   250   255

Thr Asn Phe Asp Glu Leu His Cys Lys Gly Leu Thr Lys Arg Asn Leu
            260   265   270

Lys Arg Leu His Phe Asp Ser Pro Pro His Leu Leu Asp Ile Tyr Pro
            275   280   285

```
Arg Thr Pro His Pro His Glu Glu Lys Val Glu Thr Val Glu Ile Asn
        290             295             300

Pro Lys Leu Glu Val Ile Asp Leu Gln Ile Ser Thr Pro Pro Val Met
305                 310             315                 320

Asp Ile Leu Ser Phe Asp Ser Thr Thr Thr Thr Glu Thr Ser Gly Arg
                325             330             335

Thr Leu Pro Asp Lys Gly Glu Glu Ala Cys Gly Tyr Phe Leu Asn Pro
            340             345             350

Ser Leu Met Ser Pro Glu Cys Leu Pro Thr Thr Thr Lys Lys Lys Thr
            355             360             365

Glu Asp Met Ser Asp Leu Pro Cys Glu Ser Gln Arg Ser Ile Pro Leu
        370             375             380

Ala Val Thr Asp Ala Leu Glu His Ile Met Glu Gln Leu Asn Val Leu
385             390             395                 400

Thr Gln Thr Val Ser Ile Leu Glu Gln Arg Leu Thr Leu Thr Glu Asp
            405             410             415

Lys Leu Lys Asp Cys Leu Glu Asn Gln Gln Lys Leu Phe Ser Ala Val
            420             425             430

Gln Gln Lys Ser
            435
```

<210> 2229

<211> 162

<212> PRT

<213> Homo sapiens

<400> 2229

```
Met Asn Ser Arg Thr Ala Ser Ala Arg Gly Trp Phe Ser Ser Arg Pro
1               5               10              15

Pro Thr Ser Glu Ser Asp Leu Glu Pro Ala Thr Asp Gly Pro Ala Ser
            20              25              30

Glu Thr Thr Thr Leu Ser Pro Glu Ala Thr Thr Phe Asn Asp Thr Arg
            35              40              45

Ile Pro Asp Ala Ala Gly Gly Thr Ala Gly Val Gly Thr Met Leu Leu
        50              55              60
```

Ser Phe Gly Ile Ile Thr Val Ile Gly Leu Ala Val Ala Leu Val Leu
65   70   75   80
Tyr Ile Arg Lys Lys Lys Arg Leu Glu Lys Leu Arg His Gln Leu Met
                      85   90   95
Pro Met Tyr Asn Phe Asp Pro Thr Glu Glu Gln Asp Glu Leu Glu Gln
                      100   105   110
Glu Leu Leu Glu His Gly Arg Asp Ala Ala Ser Val Gln Ala Ala Thr
                      115   120   125
Ser Val Gln Ala Met Gln Gly Lys Thr Thr Leu Pro Ser Gln Gly Pro
                      130   135   140
Leu Gln Arg Pro Ser Arg Leu Val Phe Thr Asp Val Ala Asn Ala Ile
145   150   155   160
His Val

<210> 2230

<211> 842

<212> PRT

<213> Homo sapiens

<400> 2230

Met Glu Arg Tyr Lys Ala Leu Glu Gln Leu Leu Thr Glu Leu Asp Asp
1   5   10   15
Phe Leu Lys Ile Leu Asp Gln Glu Asn Leu Ser Ser Thr Ala Leu Val
                      20   25   30
Lys Lys Ser Cys Leu Ala Glu Leu Leu Arg Leu Tyr Thr Lys Ser Ser
                      35   40   45
Ser Ser Asp Glu Glu Tyr Ile Tyr Met Asn Lys Val Thr Ile Asn Lys
                      50   55   60
Gln Gln Asn Ala Glu Ser Gln Gly Lys Ala Pro Glu Glu Gln Gly Leu
65   70   75   80
Leu Pro Asn Gly Glu Pro Ser Gln His Ser Ser Ala Pro Gln Lys Ser
                      85   90   95
Leu Pro Asp Leu Pro Pro Pro Lys Met Ile Pro Glu Arg Lys Gln Leu

```
                100                       105                      110
Ala Ile Pro Lys Thr Glu Ser Pro Glu Gly Tyr Tyr Glu Glu Ala Glu
            115                       120                      125
Pro Tyr Asp Thr Ser Leu Asn Gly His Ser Gly Gly Phe Leu Pro Thr
            130                       135                      140
Gly Val Pro Arg Trp Val Gln Val Pro Glu Arg Val Ile Tyr Ala Thr
145                       150                       155                      160
Ile Thr Leu Glu Asp Gly Glu Ala Val Ser Ser Ser Tyr Glu Ser Tyr
                165                       170                      175
Asp Glu Glu Asp Gly Ser Lys Gly Lys Ser Ala Pro Tyr Gln Trp Pro
                180                       185                      190
Ser Pro Glu Ala Gly Ile Glu Leu Met Arg Asp Ala Arg Ile Cys Ala
            195                       200                      205
Phe Leu Trp Arg Lys Lys Trp Leu Gly Gln Trp Ala Lys Gln Leu Cys
            210                       215                      220
Val Ile Lys Asp Asn Arg Leu Leu Cys Tyr Lys Ser Ser Lys Asp His
225                       230                       235                      240
Ser Pro Gln Leu Asp Val Asn Leu Leu Gly Ser Ser Val Ile His Lys
                245                       250                      255
Glu Lys Gln Val Arg Lys Lys Glu His Lys Leu Lys Ile Thr Pro Met
                260                       265                      270
Asn Ala Asp Val Ile Val Leu Gly Leu Gln Ser Lys Asp Gln Ala Glu
            275                       280                      285
Gln Trp Leu Arg Val Ile Gln Glu Val Ser Gly Leu Pro Ser Glu Gly
            290                       295                      300
Ala Ser Glu Gly Asn Gln Tyr Thr Pro Asp Ala Gln Arg Phe Asn Cys
305                       310                       315                      320
Gln Lys Pro Asp Ile Ala Glu Lys Tyr Leu Ser Ala Ser Glu Tyr Gly
                325                       330                      335
Ser Ser Val Asp Gly His Pro Glu Val Pro Glu Thr Lys Asp Val Lys
                340                       345                      350
Lys Lys Cys Ser Ala Gly Leu Lys Leu Ser Asn Leu Met Asn Leu Gly
            355                       360                      365
Arg Lys Lys Ser Thr Ser Leu Glu Pro Val Glu Arg Ser Leu Glu Thr
            370                       375                      380
Ser Ser Tyr Leu Asn Val Leu Val Asn Ser Gln Trp Lys Ser Arg Trp
```

```
385                    390                    395                    400
Cys Ser Val Arg Asp Asn His Leu His Phe Tyr Gln Asp Arg Asn Arg
                405                    410                    415
Ser Lys Val Ala Gln Gln Pro Leu Ser Leu Val Gly Cys Glu Val Val
            420                    425                    430
Pro Asp Pro Ser Pro Asp His Leu Tyr Ser Phe Arg Ile Leu His Lys
        435                    440                    445
Gly Glu Glu Leu Ala Lys Leu Glu Ala Lys Ser Ser Glu Glu Met Gly
    450                    455                    460
His Trp Leu Gly Leu Leu Leu Ser Glu Ser Gly Ser Lys Thr Asp Pro
465                    470                    475                    480
Glu Glu Phe Thr Tyr Asp Tyr Val Asp Ala Asp Arg Val Ser Cys Ile
                485                    490                    495
Val Ser Ala Ala Lys Asn Ser Leu Leu Leu Met Gln Arg Lys Phe Ser
            500                    505                    510
Glu Pro Asn Thr Tyr Ile Asp Gly Leu Pro Ser Gln Asp Arg Gln Glu
        515                    520                    525
Glu Leu Tyr Asp Asp Val Asp Leu Ser Glu Leu Thr Ala Ala Val Glu
    530                    535                    540
Pro Thr Glu Glu Ala Thr Pro Val Ala Asp Asp Pro Asn Glu Arg Glu
545                    550                    555                    560
Ser Asp Arg Val Tyr Leu Asp Leu Thr Pro Val Lys Ser Phe Leu His
                565                    570                    575
Gly Pro Ser Ser Ala Gln Ala Gln Ala Ser Ser Pro Thr Leu Ser Cys
            580                    585                    590
Leu Asp Asn Ala Thr Glu Ala Leu Pro Ala Asp Ser Gly Pro Gly Pro
        595                    600                    605
Thr Pro Asp Glu Pro Cys Ile Lys Cys Pro Glu Asn Leu Gly Glu Gln
    610                    615                    620
Gln Leu Glu Ser Leu Glu Pro Glu Asp Pro Ser Leu Arg Ile Thr Thr
625                    630                    635                    640
Val Lys Ile Gln Thr Glu Gln Gln Arg Ile Ser Phe Pro Pro Ser Cys
            645                    650                    655
Pro Asp Ala Val Val Ala Thr Pro Pro Gly Ala Ser Pro Pro Val Lys
        660                    665                    670
Asp Arg Leu Arg Val Thr Ser Ala Glu Ile Lys Leu Gly Lys Asn Arg
```

```
                675                   680                   685
Thr Glu Ala Glu Val Lys Arg Tyr Thr Glu Glu Lys Glu Arg Leu Glu
            690                   695                   700
Lys Lys Lys Glu Glu Ile Arg Gly His Leu Ala Gln Leu Arg Lys Glu
705                   710                   715                   720
Lys Arg Glu Leu Lys Glu Thr Leu Leu Lys Cys Thr Asp Lys Glu Val
                725                   730                   735
Leu Ala Ser Leu Glu Gln Lys Leu Lys Glu Ile Asp Glu Glu Cys Arg
                740                   745                   750
Gly Glu Glu Ser Arg Arg Val Asp Leu Glu Leu Ser Ile Met Glu Val
                755                   760                   765
Lys Asp Asn Leu Lys Lys Ala Glu Ala Gly Pro Val Thr Leu Gly Thr
            770                   775                   780
Thr Val Asp Thr Thr His Leu Glu Asn Pro Lys Ala Val Thr Pro Ala
785                   790                   795                   800
Ser Ala Pro Asp Cys Thr Pro Val Asn Ser Ala Thr Thr Leu Lys Asn
                805                   810                   815
Arg Pro Leu Ser Val Val Val Thr Gly Lys Gly Thr Val Leu Gln Lys
                820                   825                   830
Ala Lys Glu Trp Glu Lys Lys Gly Ala Ser
                835                   840
```

<210> 2231

<211> 141

<212> PRT

<213> Homo sapiens

<400> 2231

```
Met Ile Ser Ala His Cys Ser Asn Leu His Phe Leu Gly Ser Ser Glu
  1                   5                   10                  15
Ser Pro Thr Leu Ala Ser Gln Val Gly Glu Ile Thr Gly Thr His His
                20                    25                    30
His Thr Arg Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe His His
            35                    40                    45
Val Gly His Ala Gly Leu Glu Leu Leu Thr Ser Ser Asp Pro Pro Thr
```

```
                50                      55                      60
Leu Ala Ser Arg Ser Ala Gly Ile Thr Gly Met Ser His Arg Ala Arg
  65                      70                      75                      80
Pro His Gly Ile Ser Arg Gly Glu Gln Val Thr Leu Gly Leu Pro Leu
                        85                      90                      95
Glu Leu Leu Glu Cys Val Ser Trp Pro Leu Cys Gly Ser Pro Leu Arg
                       100                     105                     110
Lys Ala Gln Ile Val Ser Thr Pro Pro Ser Pro Leu Ala Ala Leu Arg
                       115                     120                     125
Val Pro Val Gly Ala Glu Gly Trp Gly Gly Thr Glu Gln
                       130                     135                     140
```

<210> 2232

<211> 1139

<212> PRT

<213> Homo sapiens

<400> 2232

```
Met Met Met Gly Thr Arg Thr Arg Arg Ala Ala Arg Leu Thr Met Met
  1                       5                      10                      15
Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg
                        20                      25                      30
Thr Arg Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu Arg
                        35                      40                      45
Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr His Arg Thr Ala Trp
  50                      55                      60
Leu Met Ile Met Gly Thr Arg Thr Leu Arg Thr Ala Arg Leu Met Met
  65                      70                      75                      80
Arg Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Ile Met Gly Thr
                        85                      90                      95
Arg Thr Arg Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr His
                       100                     105                     110
Arg Thr Ala Arg Leu Thr Met Met Gly Thr Arg Thr His Arg Thr Ala
                       115                     120                     125
Arg Leu Thr Met Met Gly Thr Arg Thr His Arg Ala Ala Arg Leu Thr
```

```
            130                    135                    140
Met Met Gly Thr Arg Thr Leu Arg Ala Ala Trp Leu Met Val Met Gly
145                    150                    155                    160
Thr Arg Thr Arg Arg Ala Ala Arg Leu Met Ile Met Gly Thr Arg Thr
                165                    170                    175
Leu Arg Ala Ala Arg Leu Met Ile Met Gly Thr Arg Thr His Arg Thr
                180                    185                    190
Ala Arg Leu Met Met Arg Gly Thr Arg Thr Leu Arg Ser Ala Arg Leu
            195                    200                    205
Met Met Arg Gly Thr Arg Thr Leu Arg Ala Ala Arg Val Met Ile Met
        210                    215                    220
Gly Thr Arg Thr Arg Arg Ala Ala Arg Leu Met Ile Met Gly Thr Arg
225                    230                    235                    240
Thr Leu Arg Ala Ala Gln Leu Met Met Met Gly Thr Arg Thr His Arg
                245                    250                    255
Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr His Arg Thr Ala Arg
            260                    265                    270
Leu Met Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met
        275                    280                    285
Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Ile Met Gly Thr
        290                    295                    300
Arg Thr His Arg Thr Ala Arg Leu Met Met Arg Gly Thr Arg Thr Leu
305                    310                    315                    320
Arg Thr Ala Arg Leu Met Met Arg Gly Thr Arg Thr Leu Arg Ala Ala
                325                    330                    335
Arg Leu Thr Ile Met Gly Thr Arg Thr His Arg Ala Ala Arg Leu Thr
                340                    345                    350
Ile Met Gly Thr Arg Thr His Arg Thr Ala Arg Leu Thr Met Met Gly
        355                    360                    365
Thr Arg Thr Leu Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr
        370                    375                    380
Leu Arg Ala Ala Arg Leu Met Ile Met Gly Thr Arg Thr His Arg Ala
385                    390                    395                    400
Ala Arg Leu Met Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu
                405                    410                    415
Met Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met
```

```
              420                    425                    430
Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg
              435                    440                    445
Thr Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr His Arg
          450                    455                    460
Ala Ala Arg Leu Met Arg Gly Thr Arg Thr His Arg Thr Ala Arg Leu
465                    470                    475                    480
Met Met Arg Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Thr Met Met
                  485                    490                    495
Gly Thr Arg Thr His Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg
              500                    505                    510
Thr His Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu Arg
          515                    520                    525
Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr His Arg Thr Ala Arg

              530                    535                    540
Leu Thr Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met
545                    550                    555                    560
Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr
                  565                    570                    575
Arg Thr His Arg Ala Ala Trp Leu Met Met Met Gly Thr Arg Thr Leu
              580                    585                    590
Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu Arg Ala Ala
          595                    600                    605
Arg Leu Met Met Met Gly Ser Arg Thr Leu Arg Ala Ala Gln Leu Met
          610                    615                    620
Met Met Gly Thr Arg Thr His Arg Thr Ala Trp Leu Met Ile Met Gly
625                    630                    635                    640
Thr Arg Thr Leu Arg Thr Ala Arg Leu Met Met Arg Gly Thr Arg Thr
                  645                    650                    655
Leu Arg Ala Ala Arg Leu Met Ile Met Gly Thr Arg Thr Arg Arg Ala
              660                    665                    670
Ala Arg Leu Met Ile Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu
          675                    680                    685
Thr Ile Met Gly Thr Arg Thr His Arg Ala Ala Arg Leu Met Met Met
          690                    695                    700
```

Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Thr Ile Met Gly Thr Arg
705   710   715   720

Thr His Arg Thr Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu Arg
                725   730   735

Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg
                740   745   750

Leu Met Met Met Gly Thr Arg Thr His Arg Ala Ala Arg Leu Met Met
                755   760   765

Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr
                770   775   780

Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr Leu
785   790   795   800

Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr His Arg Thr Ala
                805   810   815

Arg Leu Met Met Arg Gly Thr Arg Thr Leu Arg Thr Ala Arg Leu Met
                820   825   830

Met Arg Gly Thr Arg Thr Arg Arg Ala Ala Arg Leu Thr Ile Met Gly
                835   840   845

Thr Arg Thr Arg Arg Thr Ala Arg Leu Thr Met Met Gly Thr Arg Thr
                850   855   860

His Arg Thr Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu Arg Ala
865   870   875   880

Ala Arg Leu Thr Met Met Gly Thr Arg Thr His Arg Thr Ala Arg Leu
                885   890   895

Thr Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met
                900   905   910

Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg
                915   920   925

Thr His Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr Leu Arg
                930   935   940

Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr Arg Arg Ala Ala Arg
945   950   955   960

Leu Met Met Met Gly Ser Arg Thr Leu Arg Ala Ala Arg Leu Met Met
                965   970   975

Met Gly Thr Arg Thr His Arg Thr Ala Arg Leu Thr Met Met Gly Thr
                980   985   990

Arg Thr His Arg Thr Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu
      995   1000   1005

Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr His Arg Ala Ala
    1010   1015   1020

Arg Leu Thr Met Met Gly Thr Arg Thr His Arg Ala Ala Arg Leu Thr
1025   1030   1035   1040

Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Thr Met Met Gly
             1045   1050   1055

Thr Arg Thr His Arg Thr Ala Arg Leu Thr Met Met Gly Thr Arg Thr
        1060   1065   1070

Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr Asp Arg Thr
        1075   1080   1085

Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu
    1090   1095   1100

Met Met Met Gly Thr Arg Thr Leu Arg Thr Ala Arg Leu Met Ile Met
1105   1110   1115   1120

Gly Thr Arg Thr Leu Arg Ala Ala Arg Ser Thr Val Ala Glu Thr Arg
             1125   1130   1135

Pro Gly Ala

<210> 2233
<211> 194
<212> PRT
<213> Homo sapiens

<400> 2233
Met Asp Leu Val Gly Gly Pro His Leu Ala Leu Ser Pro Ala Ser Gln
1   5   10   15

Pro Ala Leu Phe Ile Cys Ser Ala Val Phe Val Ser Pro Trp His Ser
        20   25   30

Leu Phe Arg Leu Trp Asn Ile Tyr Glu Met Ser Gln Phe Leu Lys Ile
        35   40   45

Ile Glu Asn Lys Trp Phe Ala Leu Gly Ala Glu Gly Arg Gly Ser Gln
    50   55   60

Gly Arg Arg Gln Val Pro Gly Gln Phe Trp Gly Arg Ile Leu Ala Tyr
65   70   75   80

Pro Leu Leu Cys Phe Phe Ile Leu Leu Pro Trp Glu Pro Lys Gly Phe
                85   90   95

Gln Trp Asp Phe Leu Pro Arg Phe Leu Gln Tyr Tyr Asp Met Glu Arg
                100   105   110

Leu Glu His Ser Thr Ile His Phe Leu Ile Leu Thr Ser Thr Ile Ile
                115   120   125

Ser Ser Ile Pro Asn Ser Gly Ser Tyr Pro Leu Ser Ser Ser Tyr Ser
            130   135   140

Leu Ile Gln Leu Ile Asn Leu Gly Met Val Val Ser Gly Leu Ala Pro
145   150   155   160

Gly Pro Phe Cys Leu Leu Cys Leu Gln His Pro Leu Tyr Leu Leu Val
                165   170   175

Asn Ser Ser Pro Ser Lys Pro Ser Gly Tyr Val Thr Thr Ser Lys Thr
                180   185   190

Leu Asn

<210> 2234

<211> 369

<212> PRT

<213> Homo sapiens

<400> 2234

Met Thr Gly Ser Ala Val Glu Arg Leu Val Pro Glu Pro Leu Val Gly
 1   5   10   15

Asn Leu Ser Gly Ile Glu Lys Glu Gln Leu Asp Ala Gln Arg Val Gly
                20   25   30

Val Ala Ala Ala Val Ala Phe Gly Ser Gly Ala Leu Met Leu Gly Met
            35   40   45

Phe Val Leu Gln Leu Gly Val Leu Ser Thr Phe Leu Ser Glu Pro Val
        50   55   60

Val Lys Ala Leu Thr Ser Gly Ala Ala Leu His Val Leu Leu Ser Gln
65   70   75   80

Leu Pro Ser Leu Leu Gly Leu Ser Leu Pro Arg Gln Ile Gly Cys Phe
               85   90   95

Ser Leu Phe Lys Thr Leu Ala Ser Leu Leu Thr Thr Leu Pro Arg Ser
           100   105   110

Ser Pro Ala Glu Leu Thr Ile Ser Ala Leu Ser Leu Ala Leu Leu Val
           115   120   125

Pro Val Lys Glu Leu Asn Val Arg Phe Arg Asp Arg Leu Pro Thr Pro
           130   135   140

Ile Pro Gly Glu Val Val Leu Val Leu Leu Ala Ser Val Leu Cys Phe
145   150   155   160

Thr Ser Ser Val Asp Thr Arg Tyr Gln Val Gln Ile Val Gly Leu Leu
           165   170   175

Pro Gly Gly Phe Pro Gln Pro Leu Leu Pro Asn Leu Ala Glu Leu Pro
           180   185   190

Arg Ile Leu Ala Asp Ser Leu Pro Ile Ala Leu Val Ser Phe Ala Val
           195   200   205

Ser Ala Ser Leu Ala Ser Ile His Ala Asp Lys Tyr Ser Tyr Thr Ile
           210   215   220

Asp Ser Asn Gln Glu Phe Leu Ala His Gly Ala Ser Asn Leu Ile Ser
225   230   235   240

Ser Leu Phe Ser Cys Phe Pro Asn Ser Ala Thr Leu Ala Thr Thr Asn
           245   250   255

Leu Leu Val Asp Ala Gly Gly Lys Thr Gln Leu Ala Gly Leu Phe Ser
           260   265   270

Cys Thr Val Val Leu Ser Val Leu Leu Trp Leu Gly Pro Phe Phe Tyr
           275   280   285

Tyr Leu Pro Lys Ala Val Leu Ala Cys Ile Asn Ile Ser Ser Met Arg
           290   295   300

Gln Val Phe Cys Gln Met Gln Glu Leu Pro Gln Leu Trp His Ile Ser
305   310   315   320

Arg Val Asp Phe Ala Val Trp Met Val Thr Trp Val Ala Val Val Thr
           325   330   335

Leu Ser Val Asp Leu Gly Leu Ala Val Gly Val Val Phe Ser Met Met
           340   345   350

Thr Val Val Cys Arg Thr Arg Ser Ser Ser Arg Ser Arg Gly Ser Ala
           355   360   365

Ser

<210> 2235
<211> 304
<212> PRT
<213> Homo sapiens

<400> 2235

```
Met Ala Glu Phe Leu Asp Asp Gln Glu Thr Arg Leu Cys Asp Asn Cys
 1               5                  10                  15
Lys Lys Glu Ile Pro Val Phe Asn Phe Thr Ile His Glu Ile His Cys
                20                  25                  30
Gln Arg Asn Ile Gly Met Cys Pro Thr Cys Lys Glu Pro Phe Pro Lys
            35                  40                  45
Ser Asp Met Glu Thr His Met Ala Ala Glu His Cys Gln Val Thr Cys
        50                  55                  60
Lys Cys Asn Lys Lys Leu Glu Lys Arg Leu Leu Lys Lys His Glu Glu
65                  70                  75                  80
Thr Glu Cys Pro Leu Arg Leu Ala Val Cys Gln His Cys Asp Leu Glu
                85                  90                  95
Leu Ser Ile Leu Lys Leu Lys Glu His Glu Asp Tyr Cys Gly Ala Arg
                100                 105                 110
Thr Glu Leu Cys Gly Asn Cys Gly Arg Asn Val Leu Val Lys Asp Leu
            115                 120                 125
Lys Thr His Pro Glu Val Cys Gly Arg Glu Gly Glu Glu Lys Arg Asn
        130                 135                 140
Glu Val Ala Ile Pro Pro Asn Ala Tyr Asp Glu Ser Trp Gly Gln Asp
145                 150                 155                 160
Gly Ile Trp Ile Ala Ser Gln Leu Leu Arg Gln Ile Glu Ala Leu Asp
                165                 170                 175
Pro Pro Met Arg Leu Pro Arg Arg Pro Leu Arg Ala Phe Glu Ser Asp
                180                 185                 190
Val Phe His Asn Arg Thr Thr Asn Gln Arg Asn Ile Thr Ala Gln Val
                195                 200                 205
```

Ser Ile Gln Asn Asn Leu Phe Glu Glu Gln Glu Arg Gln Glu Arg Asn
    210   215   220

Arg Gly Gln Gln Pro Pro Lys Glu Gly Gly Glu Glu Ser Ala Asn Leu
225   230   235   240

Asp Phe Met Leu Ala Leu Ser Leu Gln Asn Glu Gly Gln Ala Ser Ser
             245   250   255

Val Ala Glu Gln Asp Phe Trp Arg Ala Val Cys Glu Ala Asp Gln Ser
             260   265   270

His Gly Gly Pro Arg Ser Leu Ser Asp Ile Arg Val Gln Leu Thr Arg
             275   280   285

Ser Cys Cys Leu Val Asn Phe Val Arg Ser Ser Thr Gln Arg Asn Cys
    290   295   300

<210> 2236

<211> 216

<212> PRT

<213> Homo sapiens

<400> 2236

Met Leu Lys Phe Gln Glu Ala Ala Lys Cys Val Ser Gly Ser Thr Ala
  1   5   10   15

Ile Ser Thr Tyr Pro Lys Thr Leu Ile Ala Arg Arg Tyr Val Leu Gln
             20   25   30

Gln Lys Leu Gly Ser Gly Ser Phe Gly Thr Val Tyr Leu Val Ser Asp
        35   40   45

Lys Lys Ala Lys Arg Gly Glu Glu Leu Lys Val Leu Lys Glu Ile Ser
    50   55   60

Val Gly Glu Leu Asn Pro Asn Glu Thr Val Gln Ala Asn Leu Glu Ala
65   70   75   80

Gln Leu Leu Ser Lys Leu Asp His Pro Ala Ile Val Lys Phe His Ala
             85   90   95

Ser Phe Val Glu Gln Asp Asn Phe Cys Ile Ile Thr Glu Tyr Cys Glu
          100   105   110

Gly Arg Asp Leu Asp Asp Lys Ile Gln Glu Tyr Lys Gln Ala Gly Lys
        115   120   125

Ile Phe Pro Glu Asn Gln Ile Ile Glu Trp Phe Ile Gln Leu Leu Leu
    130   135   140

Gly Val Asp Tyr Met His Glu Arg Arg Ile Leu His Arg Asp Leu Lys
145   150   155   160

Ser Lys Asn Val Phe Leu Lys Asn Asn Leu Leu Lys Ile Gly Asp Phe
          165   170   175

Gly Val Ser Arg Leu Leu Met Gly Ser Cys Asp Leu Ala Thr Thr Leu
          180   185   190

Thr Gly Thr Pro His Tyr Met Ser Pro Glu Ala Leu Lys His Gln Gly
          195   200   205

Tyr Asp Thr Lys Ser Asp Ile Trp
    210   215

<210> 2237

<211> 477

<212> PRT

<213> Homo sapiens

<400> 2237

Met Ser Val Ser Asn Leu Ser Trp Leu Lys Lys Lys Ser Gln Ser Val
  1   5   10   15

Asp Ile Asn Ala Pro Gly Phe Asn Pro Leu Ala Gly Ala Gly Lys Gln
          20   25   30

Thr Pro Gln Ala Ser Lys Pro Pro Ala Pro Lys Thr Pro Ile Ile Glu
      35   40   45

Glu Glu Gln Asn Asn Ala Ala Asn Thr Gln Lys His Pro Ser Arg Arg
    50   55   60

Ser Glu Leu Lys Arg Phe Tyr Thr Ile Asp Thr Gly Gln Lys Lys Thr
65   70   75   80

Leu Asp Lys Lys Asp Gly Arg Arg Met Ser Phe Gln Lys Pro Lys Gly
          85   90   95

Thr Ile Glu Tyr Thr Val Glu Ser Arg Asp Ser Leu Asn Ser Ile Ala
          100   105   110

Leu Lys Phe Asp Thr Thr Pro Asn Glu Leu Val Gln Leu Asn Lys Leu
          115   120   125

```
Phe Ser Arg Ala Val Val Thr Gly Gln Val Leu Tyr Val Pro Asp Pro
    130             135          140
Glu Tyr Val Ser Ser Val Glu Ser Ser Pro Ser Leu Ser Pro Val Ser
145             150          155              160
Pro Leu Ser Pro Thr Ser Ser Glu Ala Glu Phe Asp Lys Thr Thr Asn
                165          170              175
Pro Asp Val His Pro Thr Glu Ala Thr Pro Ser Ser Thr Phe Thr Gly
            180          185              190
Ile Arg Pro Ala Arg Val Val Ser Ser Thr Ser Glu Glu Glu Glu Ala
        195             200              205
Phe Thr Glu Lys Phe Leu Lys Ile Asn Cys Lys Tyr Ile Thr Ser Gly
    210             215          220
Lys Gly Thr Val Ser Gly Val Leu Leu Val Thr Pro Asn Asn Ile Met
225             230          235              240
Phe Asp Pro His Lys Asn Asp Pro Leu Val Gln Glu Asn Gly Cys Glu
            245          250              255
Glu Tyr Gly Ile Met Cys Pro Met Glu Glu Val Met Ser Ala Ala Met
            260          265              270
Tyr Lys Glu Ile Leu Asp Ser Lys Ile Lys Glu Ser Leu Pro Ile Asp
        275             280              285
Ile Asp Gln Leu Ser Gly Arg Asp Phe Cys His Ser Lys Lys Met Thr
    290             295          300
Gly Ser Asn Thr Glu Glu Ile Asp Ser Arg Ile Arg Asp Ala Gly Asn
305             310          315              320
Asp Ser Ala Ser Thr Ala Pro Arg Ser Thr Glu Glu Ser Leu Ser Glu
            325          330              335
Asp Val Phe Thr Glu Ser Glu Leu Ser Pro Ile Arg Glu Glu Leu Val
            340          345              350
Ser Ser Asp Glu Leu Arg Gln Asp Lys Ser Ser Gly Ala Ser Ser Glu
        355             360              365
Ser Val Gln Thr Val Asn Gln Ala Glu Val Glu Ser Leu Thr Val Lys
    370             375              380
Ser Glu Ser Thr Gly Thr Pro Gly His Leu Arg Ser Asp Thr Glu His
385             390          395              400
Ser Thr Asn Glu Val Gly Thr Leu Cys His Lys Thr Asp Leu Asn Asn
            405          410              415
```

Leu Glu Met Ala Ile Lys Glu Asp Gln Ile Ala Asp Asn Phe Gln Gly
          420   425   430

Ile Ser Gly Pro Lys Glu Asp Ser Thr Ser Ile Lys Gly Asn Ser Asp
          435   440   445

Gln Asp Ser Phe Leu His Glu Asn Ser Leu His Gln Glu Glu Ser Gln
      450   455   460

Lys Glu Asn Met Pro Cys Gly Glu Thr Ala Glu Phe Lys
465   470   475

<210> 2238

<211> 151

<212> PRT

<213> Homo sapiens

<400> 2238

Met Gly Arg Gln Ser Pro Ala Asp Gly Trp Ala Leu Trp Ala Ala Thr
1   5   10   15

Leu Cys Glu Gln Gly Val Gly Pro Ile His Phe Lys Asp Gln Ser Pro
              20   25   30

Ala Leu Gly Glu Cys Ser Trp Pro Arg Leu Gly Ile Thr Phe Arg Gly
          35   40   45

Pro Ser Asp Ser Gly Gly Ala Cys Cys Gly Leu Pro Pro Ala Ser Gly
      50   55   60

Val Ala Glu Gln Thr Pro Gly Pro Gly Pro Val Pro Phe Ser Pro Pro
65   70   75   80

Gly Gln Thr Gln Thr Gln Thr Leu Gly Gly Trp Asn Gly Gly Gln Gly
                  85   90   95

Ser Met Gly Asp Val Gly Met Lys Val Gly Ala Gly Gly Ala Gly Gly
              100   105   110

Pro Gly Thr Trp Met Gly Val Asp Arg Pro Phe Ser Leu Glu Ala Arg
          115   120   125

Ser Ala Ala Leu Ala Gly Ser Glu Ala Pro Gly Thr Thr Ser Phe Pro
      130   135   140

Asp Phe Pro Val Trp Ser Val
145   150

<210> 2239

<211> 456

<212> PRT

<213> Homo sapiens

<400> 2239

```
Met Glu Ala Leu Gly Asp Leu Glu Gly Pro Arg Ala Pro Gly Gly Asp
1               5                   10                  15
Asp Pro Ala Gly Ser Ala Gly Glu Thr Pro Gly Trp Leu Ser Arg Glu
                20                  25                  30
Gln Val Phe Val Leu Ile Ser Ala Ala Ser Val Asn Leu Gly Ser Met
            35                  40                  45
Met Cys Tyr Ser Ile Leu Gly Pro Phe Phe Pro Lys Glu Ala Glu Lys
        50                  55                  60
Lys Gly Ala Ser Asn Thr Ile Ile Gly Met Ile Phe Gly Cys Phe Ala
 65                 70                  75                  80
Leu Phe Glu Leu Leu Ala Ser Leu Val Phe Gly Asn Tyr Leu Val His
                85                  90                  95
Ile Gly Ala Lys Phe Met Phe Val Ala Arg Met Phe Val Ser Gly Gly
            100                 105                 110
Val Thr Ile Leu Phe Gly Val Leu Asp Arg Val Pro Asp Gly Pro Val
            115                 120                 125
Phe Ile Ala Met Cys Phe Leu Val Arg Val Met Asp Ala Val Ser Phe
        130                 135                 140
Ala Ala Ala Met Thr Ala Ser Ser Ser Ile Leu Ala Lys Ala Phe Pro
145                 150                 155                 160
Asn Asn Val Ala Thr Val Leu Gly Ser Leu Glu Thr Phe Ser Gly Leu
                165                 170                 175
Gly Leu Ile Leu Gly Pro Pro Val Gly Gly Phe Leu Tyr Gln Ser Phe
            180                 185                 190
Gly Tyr Glu Val Pro Phe Ile Val Leu Gly Cys Val Val Leu Leu Met
            195                 200                 205
Val Pro Leu Asn Met Tyr Ile Leu Pro Asn Tyr Glu Ser Asp Pro Gly
        210                 215                 220
```

Glu His Ser Phe Trp Lys Leu Ile Ala Leu Pro Lys Val Gly Leu Ile
225   230   235   240

Ala Phe Val Ile Asn Ser Leu Ser Ser Cys Phe Gly Phe Leu Asp Pro
                245   250   255

Thr Leu Ser Leu Phe Val Leu Glu Lys Phe Asn Leu Pro Ala Gly Tyr
                260   265   270

Val Gly Leu Val Phe Leu Gly Met Ala Leu Ser Tyr Ala Ile Ser Ser
                275   280   285

Pro Leu Phe Gly Leu Leu Ser Asp Lys Arg Pro Pro Leu Arg Lys Trp
                290   295   300

Leu Leu Val Phe Gly Asn Leu Ile Thr Ala Gly Cys Tyr Met Leu Leu
305   310   315   320

Gly Pro Val Pro Ile Leu His Ile Lys Ser Gln Leu Trp Leu Leu Val
                325   330   335

Leu Ile Leu Val Val Ser Gly Leu Ser Ala Gly Met Ser Ile Ile Pro
                340   345   350

Thr Phe Pro Glu Ile Leu Ser Cys Ala His Glu Asn Gly Phe Glu Glu
                355   360   365

Gly Leu Ser Thr Leu Gly Leu Val Ser Gly Leu Phe Ser Ala Met Trp
                370   375   380

Ser Ile Gly Ala Phe Met Gly Pro Thr Leu Gly Gly Phe Leu Tyr Glu
385   390   395   400

Lys Ile Gly Phe Glu Trp Ala Ala Ala Ile Gln Gly Leu Trp Ala Leu
                405   410   415

Ile Ser Gly Leu Ala Met Gly Leu Phe Tyr Leu Leu Glu Tyr Ser Arg
                420   425   430

Arg Lys Arg Ser Lys Ser Gln Asn Ile Leu Ser Thr Glu Glu Glu Arg
                435   440   445

Thr Thr Leu Leu Pro Asn Glu Thr
450   455

<210> 2240

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2240

Met Val Met Val Gly Ala Thr Ser Leu Gly Ala Tyr Gly Gly Glu Arg
1   5   10   15

Arg Ser Trp Val Pro Ser Ala His His Leu Gly Glu Gly Leu Val Pro
                20   25   30

Asp Pro Thr Ser Gly Phe Val Cys Gln Pro Gly Ala Phe Phe Ser Pro
            35   40   45

Tyr Leu Leu Asp Tyr Phe Ile Thr Leu Phe Leu Pro Glu Met His Leu
    50   55   60

Leu Leu Asp Trp Ser Arg Ser Lys Pro Cys Ser Phe Thr Glu Ala Leu
65   70   75   80

Pro Val Gly Ile Ser Cys Arg Ile Pro Pro Ser Arg Asp Gln Ser Val
                85   90   95

Leu Trp Leu Phe His Lys
                100

<210> 2241
<211> 136
<212> PRT
<213> Homo sapiens

<400> 2241

Met Ser Ala Gly Glu Pro Ala Ala Ala Pro Asn Leu Asp Glu Glu Arg
1   5   10   15

Asn Leu Val Ala Val Pro Ala Glu Lys Pro His Gly Ser Pro His Ile
                20   25   30

Ser Thr Met Val Pro Gly Phe Ser His Pro His Arg Pro Arg Leu Leu
            35   40   45

Pro Ser His Pro Arg Pro Glu Thr Gln Lys Ala Leu Asp Arg Ala Ala
    50   55   60

Ser Ser Gly Ile Trp Thr Gly Leu Arg Tyr Leu Leu Pro Ala Pro Gln
65   70   75   80

Ser Ala Ile Arg His Ile His Pro Arg Gly Thr Arg Cys Ser Phe Arg
                85   90   95

'

Gly Cys Leu Gln Gly Met Glu Asp Ser His Arg Arg Leu Leu Thr Ser
                100   105   110
His Ala Gln Val Ser Pro Arg Cys His Val Gln Ser Glu Pro Phe Leu
            115   120   125
Ala His Val Pro Val Leu Val Ala
        130   135

<210> 2242
<211> 148
<212> PRT
<213> Homo sapiens

<400> 2242
Met Gly Leu Arg Pro Pro Gly Asn Asn His Arg Ala Cys Ser Ser Ala
 1   5   10   15
Pro Ala Ser Pro Glu Ser His Pro Arg Asp Gln Pro His Pro Gln His
                20   25   30
Asn Cys Pro Ala Gly Glu Ala Pro Trp Ala Trp Arg Gly Phe Pro Asp
            35   40   45
Thr Ala His Pro Gly Pro Ala Ser Ser Thr Lys Thr Glu Thr Leu Ala
        50   55   60
Thr His Gly Gly Trp Gly Pro Gly Val Leu Arg Arg Gly Tyr Pro Gly
 65   70   75   80
Pro Arg Pro Glu Ile His Gln Leu His Pro Arg Gly Gly Thr Ala Asp
                85   90   95
Gly Ser Gln His Gln Gln Asp Pro Arg Ala Pro Arg Thr Glu Val Cys
            100   105   110
Pro Thr His Phe Leu Pro Thr Thr Cys Ala Pro Glu Ser Arg Ala Cys
            115   120   125
Pro Gly Arg Trp Arg Pro Gly Val Glu Cys Thr Cys Ser His Glu Val
        130   135   140
Leu Gly Val Phe
145

<210> 2243

<211> 539

<212> PRT

<213> Homo sapiens

<400> 2243

```
Met Arg Ile Ser Phe Lys Ala Gly Val Tyr Val Pro His Pro Thr Gly
1               5                   10                  15
His Val Thr Phe Ile Thr Leu Trp Trp Asn Glu Lys Lys Gly Ile Trp
                20                  25                  30
Asp Met Ile Asn Ser Gly Asn Ala Ile Val Cys Leu Arg Gln Gln Arg
            35                  40                  45
Asp Ser Gly Ser Arg Gly Arg Pro Arg Ala Ser Val Thr Ser Pro Asp
        50                  55                  60
Cys Arg Val Thr Val Ala Tyr Pro Gly Gly Ala Thr Arg Pro Ala Gly
65                  70                  75                  80
Lys Met Thr Ser Pro Ser Glu Leu Leu Gln Thr Ser Ala Arg Ser Gly
                85                  90                  95
Ser Trp Arg Ala Gly Gly Gly Trp Glu Thr Ser Arg Ala His Gly Thr
                100                 105                 110
Asp Arg Arg Gln Lys Pro Gly Gly Val Arg Trp Ala Pro Asp Pro Cys
            115                 120                 125
Pro Pro Ser Ser Arg Ala Ala Pro Gly Gly Pro Ala Pro Ser Val Asn
    130                 135                 140
Ala Ala Gly Arg Pro Ile Arg Ala Gly Arg Gly Ala Ala Gln Pro Ile
145                 150                 155                 160
Ser Gly Gln Ser Ser Arg Ala Leu Pro Arg Ser Arg Ala Leu Pro Arg
                165                 170                 175
Ser Arg Glu Leu Pro Ala Arg Cys Arg Arg Asp Trp Glu Arg Ala Pro
                180                 185                 190
Gln Arg Thr Leu Ala Arg Gly Ser Ala Gln Ser Val Cys Glu Asp Pro
                195                 200                 205
Ala Arg Arg Pro Pro Gly Asp Pro Met Ala Ser Glu Gly Leu Ala Gly
        210                 215                 220
Ala Leu Ala Ser Val Leu Ala Gly Gln Gly Ser Ser Val His Ser Cys
225                 230                 235                 240
```

Asp Ser Ala Pro Ala Gly Glu Pro Pro Ala Pro Val Arg Leu Arg Lys
             245   250   255

Asn Val Cys Tyr Val Val Leu Ala Val Phe Leu Ser Glu Gln Asp Glu
             260   265   270

Val Leu Leu Ile Gln Glu Ala Lys Arg Glu Cys Arg Gly Ser Trp Tyr
             275   280   285

Leu Pro Ala Gly Arg Met Glu Pro Gly Glu Thr Ile Val Glu Ala Leu
             290   295   300

Gln Arg Glu Val Lys Glu Glu Ala Gly Leu His Cys Glu Pro Glu Thr
305   310   315   320

Leu Leu Ser Val Glu Glu Arg Gly Pro Ser Trp Val Arg Phe Val Phe
             325   330   335

Leu Ala Arg Pro Thr Gly Gly Ile Leu Lys Thr Ser Lys Glu Ala Asp
             340   345   350

Ala Glu Ser Leu Gln Ala Ala Trp Tyr Pro Arg Thr Ser Leu Pro Thr
             355   360   365

Pro Leu Arg Ala His Asp Ile Leu His Leu Val Glu Leu Ala Ala Gln
             370   375   380

Tyr Arg Gln Gln Ala Arg His Pro Leu Ile Leu Pro Gln Glu Leu Pro
385   390   395   400

Cys Asp Leu Val Cys Gln Arg Leu Val Ala Thr Phe Thr Ser Ala Gln
             405   410   415

Thr Val Trp Val Leu Val Gly Thr Val Gly Met Pro His Leu Pro Val
             420   425   430

Thr Ala Cys Gly Leu Asp Pro Val Glu Gln Arg Gly Gly Met Lys Met
             435   440   445

Ala Val Leu Arg Leu Leu Gln Glu Cys Leu Thr Leu His His Leu Val
             450   455   460

Val Glu Ile Lys Gly Leu Leu Gly Leu Gln His Leu Gly Arg Asp His
465   470   475   480

Ser Asp Gly Ile Cys Leu Asn Val Leu Val Thr Val Ala Phe Arg Ser
             485   490   495

Pro Gly Ile Gln Asp Glu Pro Pro Lys Val Arg Gly Glu Asn Phe Ser
             500   505   510

Trp Trp Lys Val Met Glu Glu Asp Leu Gln Ser Gln Leu Leu Gln Arg
             515   520   525

Leu Gln Gly Ser Ser Val Val Pro Val Asn Arg
    530   535

<210> 2244

<211> 434

<212> PRT

<213> Homo sapiens

<400> 2244

Met Glu Ala Gly Ala Gly Ala Gly Ala Gly Ala Ala Gly Trp Ser Cys
1   5   10   15

Pro Gly Pro Gly Pro Thr Val Thr Thr Leu Gly Ser Tyr Glu Ala Ser
        20   25   30

Glu Gly Cys Glu Arg Lys Lys Gly Gln Arg Trp Gly Ser Leu Glu Arg
        35   40   45

Arg Gly Met Gln Ala Met Glu Gly Glu Val Leu Leu Pro Ala Leu Tyr
      50   55   60

Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Val Glu Glu Glu
65   70   75   80

Glu Glu Gln Val Gln Lys Gly Gly Ser Val Gly Ser Leu Ser Val Asn
          85   90   95

Lys His Arg Gly Leu Ser Leu Thr Glu Thr Glu Leu Glu Glu Leu Arg

        100   105   110

Ala Gln Val Leu Gln Leu Val Ala Glu Leu Glu Glu Thr Arg Glu Leu
        115   120   125

Ala Gly Gln His Glu Asp Asp Ser Leu Glu Leu Gln Gly Leu Leu Glu
        130   135   140

Asp Glu Arg Leu Ala Ser Ala Gln Gln Ala Glu Val Phe Thr Lys Gln
145   150   155   160

Ile Gln Gln Leu Gln Gly Glu Leu Arg Ser Leu Arg Glu Glu Ile Ser
          165   170   175

Leu Leu Glu His Glu Lys Glu Ser Glu Leu Lys Glu Ile Glu Gln Glu
        180   185   190

Leu His Leu Ala Gln Ala Glu Ile Gln Ser Leu Arg Gln Ala Ala Glu

```
                195                     200                     205
Asp Ser Ala Thr Glu His Glu Ser Asp Ile Ala Ser Leu Gln Glu Asp
        210                     215                     220
Leu Cys Arg Met Gln Asn Glu Leu Glu Asp Met Glu Arg Ile Arg Gly
225                     230                     235                     240
Asp Tyr Glu Met Glu Ile Ala Ser Leu Arg Ala Glu Met Glu Met Lys
                    245                     250                     255
Ser Ser Glu Pro Ser Glu Glu Leu Gln Glu Leu Arg Glu Arg Tyr His
                260                     265                     270
Phe Leu Asn Glu Glu Tyr Arg Ala Leu Gln Glu Ser Asn Ser Ser Leu
                275                     280                     285
Thr Gly Gln Leu Ala Asp Leu Glu Ser Glu Arg Thr Gln Arg Ala Thr
        290                     295                     300
Glu Arg Trp Leu Gln Ser Gln Thr Leu Ser Met Thr Ser Ala Glu Ser
305                     310                     315                     320
Gln Thr Ser Glu Met Asp Phe Leu Glu Pro Asp Pro Glu Met Gln Leu
                    325                     330                     335
Leu Arg Gln Gln Leu Arg Asp Ala Glu Glu Gln Met His Gly Met Lys
                340                     345                     350
Asn Lys Cys Gln Glu Leu Cys Cys Glu Leu Glu Glu Leu Gln His His
                355                     360                     365
Arg Gln Val Ser Glu Glu Glu Gln Arg Arg Leu Gln Arg Glu Leu Lys
        370                     375                     380
Cys Ala Gln Asn Glu Val Leu Arg Phe Gln Thr Ser His Ser Val Thr
385                     390                     395                     400
Gln Ser Ser Pro Thr Pro Asn Pro Pro Ile Phe Ser Leu Pro Leu Val
                    405                     410                     415
Gly Leu Val Val Ile Ser Ala Leu Leu Trp Cys Trp Trp Ala Glu Thr
                420                     425                     430
Ser Ser
```

<210> 2245
<211> 361
<212> PRT

<213> Homo sapiens

<400> 2245

```
Met Ser Thr Ala Arg Glu Gln Pro Ile Phe Ser Thr Arg Ala His Val
 1               5                  10                  15
Phe Gln Ile Asp Pro Ala Thr Lys Arg Asn Trp Ile Pro Ala Gly Lys
                 20                  25                  30
His Ala Leu Thr Val Ser Tyr Phe Tyr Asp Ala Thr Arg Asn Val Tyr
             35                  40                  45
Arg Ile Ile Ser Ile Gly Gly Ala Lys Ala Ile Ile Asn Ser Thr Val
         50                  55                  60
Thr Pro Asn Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp
65                  70                  75                  80
Ala Asp Ser Arg Ala Asn Thr Val Tyr Gly Leu Gly Phe Ala Ser Glu
                 85                  90                  95
Gln His Leu Thr Gln Phe Ala Glu Lys Phe Gln Glu Val Lys Glu Ala
             100                 105                 110
Ala Arg Leu Ala Arg Glu Lys Ser Gln Asp Gly Gly Glu Leu Thr Ser
         115                 120                 125
Pro Ala Leu Gly Leu Ala Ser His Gln Val Pro Pro Ser Pro Leu Val
     130                 135                 140
Ser Ala Asn Gly Pro Gly Glu Glu Lys Leu Phe Arg Ser Gln Ser Ala
145                 150                 155                 160
Asp Ala Pro Gly Pro Thr Glu Arg Glu Arg Leu Lys Lys Met Leu Ser
                 165                 170                 175
Glu Gly Ser Val Gly Glu Val Gln Trp Glu Ala Glu Phe Phe Ala Leu
             180                 185                 190
Gln Asp Ser Asn Asn Lys Leu Ala Gly Ala Leu Arg Glu Ala Asn Ala
         195                 200                 205
Ala Ala Ala Gln Trp Arg Gln Gln Leu Glu Ala Gln Arg Ala Glu Ala
     210                 215                 220
Glu Arg Leu Arg Gln Arg Val Ala Glu Leu Glu Ala Gln Ala Ala Ser
225                 230                 235                 240
Glu Val Thr Pro Thr Gly Glu Lys Glu Gly Leu Gly Gln Gly Gln Ser
                 245                 250                 255
Leu Glu Gln Leu Glu Ala Leu Val Gln Thr Lys Asp Gln Glu Ile Gln
```

```
                260                  265                  270
Thr Leu Lys Ser Gln Thr Gly Gly Pro Arg Glu Ala Leu Glu Ala Ala
        275                  280                  285
Glu Arg Glu Glu Thr Gln Gln Lys Val Gln Asp Leu Glu Thr Arg Asn
        290                  295                  300
Ala Glu Leu Glu His Gln Leu Arg Ala Met Glu Arg Ser Leu Glu Glu
305                  310                  315                  320
Ala Arg Ala Glu Arg Glu Arg Ala Arg Ala Glu Val Gly Arg Ala Ala
                325                  330                  335
Gln Leu Leu Asp Val Arg Leu Phe Glu Leu Ser Glu Leu Arg Glu Gly
                340                  345                  350
Leu Ala Arg Leu Ala Glu Ala Ala Pro
                355                  360
```

<210> 2246

<211> 170

<212> PRT

<213> Homo sapiens

<400> 2246

```
Met Ala Gly Thr Leu Leu Ser Pro Pro Ser Gly Val Pro Leu Glu Arg
1                5                  10                   15
Leu Ile Arg Val Ala Thr Glu Arg Gly Tyr Thr Ala Gln Gly Glu Met
            20                  25                  30
Phe Ser Val Ala Asp Met Gly Arg Leu Ala Gln Glu Val Leu Gly Cys
        35                  40                  45
Gln Ala Lys Leu Leu Ser Gly Gly Leu Gly Gly Pro Asn Arg Asp Leu
        50                  55                  60
Val Leu Gln His Leu Val Thr Gly His Pro Leu Leu Ile Pro Tyr Asp
65                  70                  75                  80
Glu Asp Phe Asn His Glu Pro Cys Gln Arg Lys Gly His Lys Ala His
                85                  90                  95
Trp Ala Gly Ser Cys Trp Val Phe Gly Leu Cys Pro Val Ser Ala Thr
                100                 105                 110
Leu Arg Thr Leu Ser Cys Arg Ala Cys Ser Thr Gln Cys Trp Ala Arg
```

```
              115                 120                 125
Pro Ala Asn His His Pro Cys Gln Arg Arg Ala Pro Arg Glu Leu Ser
        130                 135                 140
Thr Cys Cys Pro Ser Arg Ala Arg Val Gly Thr Ile Ser Cys Gly Thr
145                 150                 155                 160
Thr Thr Arg Ser Gly Arg Ala Thr Cys Ser
                    165                 170
```

<210> 2247

<211> 317

<212> PRT

<213> Homo sapiens

<400> 2247

```
Met Arg Lys Thr Ser Asn Ser Cys Ile Met Glu Asn Gly His Gln Pro
  1               5                  10                  15
Gly Thr Gly Pro Gly Asp Gly Pro Pro Glu Ile Ala Gln Asn Phe Ser
                20                  25                  30
Ala Pro Asp Pro Pro Arg Pro Arg Pro Val Ser Leu Ser Leu Arg Leu
          35                  40                  45
Pro His Gln Pro Val Thr Ala Ile Thr Arg Val Ser Asp Arg Phe Ser
          50                  55                  60
Gly Glu Thr Ser Ala Ala Ala Leu Ser Pro Met Ser Ala Ala Thr Leu
65                  70                  75                  80
Gly Gly Leu Asn Pro Ser Pro Ser Glu Val Ile Thr Pro Trp Thr Pro
                85                  90                  95
Ser Pro Ser Glu Lys Asn Ser Ser Phe Thr Trp Ser Val Pro Ser Ser
              100                 105                 110
Gly Tyr Gly Ala Val Thr Ala Ser Lys His Ser Asn Ser Pro Pro Leu
            115                 120                 125
Val Thr Pro Pro Gln Ser Pro Val Ser Pro Gln Pro Pro Ala Ile Thr
          130                 135                 140
Gln Val His Arg Gln Gly Glu Arg Arg Arg Glu Leu Val Arg Ser Gln
145                 150                 155                 160
Thr Leu Pro Arg Thr Ser Glu Ala Gln Ala Arg Lys Ala Leu Phe Glu
```

```
                165                    170                    175
Lys Trp Glu Gln Glu Thr Ala Ala Gly Lys Gly Lys Gly Glu Ala Arg
                180                    185                    190
Ala Arg Leu Lys Arg Ser Gln Ser Phe Gly Val Ala Ser Ala Ser Ser
                195                    200                    205
Ile Lys Gln Ile Leu Leu Glu Trp Cys Arg Ser Lys Thr Leu Gly Tyr
            210                    215                    220
Gln His Val Asp Leu Gln Asn Phe Ser Ser Ser Trp Ser Asp Gly Met
225                    230                    235                    240
Ala Phe Cys Ala Leu Val His Ser Phe Phe Pro Asp Ala Phe Asp Tyr
                245                    250                    255
Asn Ser Leu Ser Pro Thr Gln Arg Gln Lys Asn Phe Glu Leu Ala Phe
                260                    265                    270
Thr Met Ala Glu Asn Leu Ala Asn Cys Glu Arg Leu Ile Glu Val Glu
            275                    280                    285
Asp Met Met Val Met Gly Arg Lys Pro Asp Pro Met Cys Val Phe Thr
        290                    295                    300
Tyr Val Gln Ser Leu Tyr Asn His Leu Arg Arg Phe Glu
305                    310                    315
```

<210> 2248

<211> 562

<212> PRT

<213> Homo sapiens

<400> 2248

```
Met Gly Lys Asp Gln Glu Leu Leu Glu Ala Ala Arg Thr Gly Asn Val
 1                  5                    10                    15
Ala Leu Val Glu Lys Leu Leu Ser Gly Arg Lys Gly Gly Ile Leu Gly
            20                    25                    30
Gly Gly Ser Gly Pro Leu Pro Leu Ser Asn Leu Leu Ser Ile Trp Arg
            35                    40                    45
Gly Pro Asn Val Asn Cys Thr Asp Ser Ser Gly Tyr Thr Ala Leu His
        50                    55                    60
His Ala Ala Leu Asn Gly His Lys Asp Ile Val Leu Lys Leu Leu Gln
```

```
   65                    70                    75                    80
Tyr Glu Ala Ser Thr Asn Val Ala Asp Asn Lys Gly Tyr Phe Pro Ile
                     85                    90                    95
His Leu Ala Ala Trp Lys Gly Asp Val Glu Ile Val Lys Ile Leu Ile
                    100                   105                   110
His His Gly Pro Ser His Ser Arg Val Asn Glu Gln Asn Asn Glu Asn
                    115                   120                   125
Glu Thr Ala Leu His Cys Ala Ala Gln Tyr Gly His Ser Glu Val Val
        130                   135                   140
Ala Val Leu Leu Glu Glu Leu Thr Asp Pro Thr Ile Arg Asn Ser Lys
145                   150                   155                   160
Leu Glu Thr Pro Leu Asp Leu Ala Ala Leu Tyr Gly Arg Leu Arg Val
                    165                   170                   175
Val Lys Met Ile Ile Ser Ala His Pro Asn Leu Met Ser Cys Asn Thr
                    180                   185                   190
Arg Lys His Thr Pro Leu His Leu Ala Ala Arg Asn Gly His Lys Ala
                    195                   200                   205
Val Val Gln Val Leu Leu Glu Ala Gly Met Asp Val Ser Cys Gln Thr
        210                   215                   220
Glu Lys Gly Ser Ala Leu His Glu Ala Ala Leu Phe Gly Lys Val Asp
225                   230                   235                   240
Val Val Arg Val Leu Leu Glu Thr Glu Tyr Leu Glu Gly Val Gly Arg
                    245                   250                   255
Ser Thr Val Pro Glu Glu Pro Val Gln Glu Asp Ala Thr Gln Glu Thr
                    260                   265                   270
His Ile Ser Ser Pro Val Glu Ser Pro Ser Gln Lys Thr Lys Ser Glu
                    275                   280                   285
Thr Val Thr Gly Glu Leu Ser Lys Leu Leu Asp Glu Ile Lys Leu Cys
        290                   295                   300
Gln Glu Lys Asp Tyr Ser Phe Glu Asp Leu Cys His Thr Ile Ser Asp
305                   310                   315                   320
His Tyr Leu Asp Asn Leu Ser Lys Ile Ser Glu Glu Glu Leu Gly Lys
                    325                   330                   335
Asn Gly Ser Gln Ser Val Arg Thr Ser Ser Thr Ile Asn Leu Ser Pro
                    340                   345                   350
Gly Glu Val Glu Glu Glu Asp Asp Asp Glu Asn Thr Cys Gly Pro Ser
```

```
            355                   360                   365
Gly Leu Trp Glu Ala Leu Thr Pro Cys Asn Gly Cys Arg Asn Leu Gly
        370                   375                   380
Phe Pro Thr Leu Ala Gln Glu Ser Tyr Pro Lys Lys Arg Asn Tyr Thr
385                   390                   395                   400
Met Glu Ile Val Pro Ser Ala Ser Leu Asp Thr Phe Pro Ser Glu Asn
                    405                   410                   415
Glu Asn Phe Leu Cys Asp Leu Met Asp Thr Ala Val Thr Lys Lys Pro
                420                   425                   430
Cys Ser Leu Glu Ile Ala Arg Ala Pro Ser Pro Arg Thr Asp Asn Ala
            435                   440                   445
Ser Glu Val Ala Val Thr Thr Pro Gly Thr Ser Asn His Arg Asn Ser

            450                   455                   460
Ser Thr Gly Pro Thr Pro Asp Cys Ser Pro Pro Ser Pro Asp Thr Ala
465                   470                   475                   480
Leu Lys Asn Ile Val Lys Val Ile Arg Pro Gln Pro Lys Gln Arg Thr
                    485                   490                   495
Ser Ile Val Ser Ser Leu Asp Phe His Arg Met Asn His Asn Gln Glu
                500                   505                   510
Tyr Phe Glu Thr Asn Thr Ser Thr Gly Cys Thr Ser Phe Thr Ala Ser
            515                   520                   525
Pro Pro Ala Ser Pro Pro Thr Ser Ser Val Gly Thr Thr Glu Val Lys
        530                   535                   540
Asn Glu Gly Thr Asn His Thr Asp Asp Leu Ser Arg Gln Asp Asp Asn
545                   550                   555                   560
Asp Pro
```

<210> 2249

<211> 150

<212> PRT

<213> Homo sapiens

<400> 2249

```
Met Ser Arg Gly Gly Arg Gly Arg Lys Gly Gly Ser Leu Val Ile Val
1               5                   10                  15
Ala Lys Thr Pro Val Pro Ser Leu Thr Ser Ser Leu Gln Arg Pro Ser
                20                  25                  30
Ser Cys Gly Ala Cys Trp Glu Thr Lys Val Gly Phe Arg Pro Leu Ala
            35                  40                  45
Met Leu Ser Ser Pro Leu Leu Arg Ser Ala Pro Trp Leu Gln Gly Cys
        50                  55                  60
Gly Gly Pro Gln Asn Gln Ala Glu Trp Glu Leu Glu Thr Val Ala Glu
65                  70                  75                  80
Gly His Pro Gly Leu Leu Gly Pro Leu Gln Pro Ser Val Ser Thr Ala
                85                  90                  95
Leu Ser Pro Ala Gln Gln Thr Ile Val Arg Ala Leu Val Phe Arg Pro
            100                 105                 110
Ser His Met Val Gly Pro Lys Arg Ala Pro Tyr Ala His Cys Leu Pro
            115                 120                 125
Asp Thr Arg Lys Asn His Val Gly Ile Gly Gly Pro Arg Ala Leu Pro
        130                 135                 140
Phe Leu His Pro Ser Ser
145                 150
```

<210> 2250

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2250

```
Met Ala Gly Arg Gly Arg Ala Leu Phe Pro Ala Gly Ala Leu Val Leu
1               5                   10                  15
Gly Gln Val Ser Ala Leu Ala Val Gly Ser Asn Ser Pro Ser Gly Gln
                20                  25                  30
Ser Arg Asp Gly Ala Thr Leu Gln Asn Ala His Pro Gln Val Glu Ser
            35                  40                  45
Trp Val Pro Arg Ala Gln Thr His Pro Ala Pro Pro Gln Thr Trp Ala
        50                  55                  60
```

Pro Phe Phe Thr Met His Ser Ser Glu Gln Pro Cys Arg Gln Thr Trp
65   70   75   80

Arg Ala Ser Val Leu Ser Ser Cys Glu Gly Leu Cys Leu Gly Pro Trp
                85   90   95

Arg His Cys Gly Ala Gly Thr Gly Arg Ala Pro Ala Asn Ile Lys Gly

                100   105   110

Val Val Ser Met Ser Met Gln Gly Cys Leu Ile Ala Val Ser Glu Phe
                115   120   125

Pro Thr Gly Ser Cys Arg Ala Leu Trp Glu His Thr Leu Phe
        130   135   140

<210> 2251

<211> 119

<212> PRT

<213> Homo sapiens

<400> 2251

Met Asp Ala Cys Thr Arg Thr Glu His Lys Leu Ser Arg Asp Ser Pro
1   5   10   15

Ser Asn Lys Leu Leu Tyr Ala Lys Glu Ile Ser Thr Tyr Lys Lys Met
                20   25   30

Val Glu Asp Tyr Tyr Lys Gly Ile Arg Gln Met Val Gln Val Ser Asp
                35   40   45

Gln Asp Met Asn Thr His Leu Ala Glu Ile Ser Arg Ala His Thr Asp
        50   55   60

Ser Leu Asn Thr Leu Val Ala Leu His Gln Leu Tyr Gln Tyr Thr Gln
65   70   75   80

Lys Tyr Tyr Asp Glu Ile Ile Asn Ala Leu Glu Glu Asp Pro Ala Ala
                85   90   95

Gln Lys Met Gln Leu Ala Phe Arg Leu Gln Gln Ile Ala Ala Ala Leu
                100   105   110

Glu Asn Lys Val Thr Asp Leu
        115

<210> 2252

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2252

Met Arg Arg Ala Arg Pro Lys Gly Asp Pro Leu His Ile Pro Ser His
1   5   10   15
Ala Ser Ala His Cys Ser Pro Gly Pro Ser Val Pro Pro Leu Ala Gly
                20   25   30
Ala Val Ser Leu Ala Trp Glu Leu Met Ala Pro Phe Cys Val Pro Thr
                35   40   45
Gly Ser Phe Arg Ala Arg Leu Arg Pro His His Tyr Arg His Pro Gly
        50   55   60
Gly Thr Asp Phe Leu Leu Cys Gly Arg Leu Pro Pro Ala Val Pro Glu
65   70   75   80
Gln Glu Pro Gln Trp Leu Leu Arg Pro Trp Gly His Arg Arg Val Leu
                85   90   95
Pro Ser Gly Tyr
        100

<210> 2253

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2253

Met Lys Thr Phe Ala Leu Phe Asn His Leu Arg Thr His Thr Glu Glu
1   5   10   15
Arg Ser Leu Asn Thr Trp Tyr Glu Glu Arg Pro Ser Arg Arg Asn Arg
                20   25   30
Phe Leu Ser Ile Thr Lys Lys Phe Thr Val Glu Lys Thr Pro Ala Ser
                35   40   45
Lys Glu Cys Gly Met Val Phe Ser His Leu Ser Tyr Val Arg Lys Leu

```
              50                    55                    60
Tyr Lys Val Pro Met Gly Lys Arg His Tyr Lys Cys Ser Glu Asn Gly
 65                    70                    75                    80
Lys Ala Phe Ser Tyr Arg His Pro Leu Leu Arg Lys Ile Thr Arg Glu
                      85                    90                    95
Phe Thr Arg Glu Leu Trp Ala Thr Asn Val Gly Lys Pro Gln Leu Pro
                     100                   105                   110
Glu Ser
```

<210> 2254

<211> 161

<212> PRT

<213> Homo sapiens

<400> 2254

```
Met Val Leu Val Leu Val Leu Val Val Met Cys Trp His Val Arg Phe
 1                     5                    10                    15
Leu Phe Ser Phe Pro Leu Leu Ser Ala Ser Thr Phe Cys Ser Leu Arg
                      20                    25                    30
Leu Pro Thr Glu Tyr Glu Arg Asn Gly Arg Tyr Glu Gly Ser Ser Arg
                      35                    40                    45
Asn Val Ser Ala Glu Gln Lys Asp Glu Asn Lys Glu Ala Lys Pro Arg
           50                    55                    60
Ser Leu Arg Phe Thr Trp Ser Met Lys Thr Thr Ser Ser Met Asp Pro
 65                    70                    75                    80
Gly Asp Met Met Arg Glu Ile Arg Lys Val Leu Asp Ala Asn Asn Cys
                      85                    90                    95
Asp Tyr Glu Gln Arg Glu Arg Phe Leu Leu Phe Cys Val His Gly Asp
                     100                   105                   110
Gly His Ala Glu Asn Leu Val Gln Trp Glu Met Glu Val Cys Lys Leu
                     115                   120                   125
Pro Arg Leu Ser Leu Asn Gly Val Arg Phe Lys Arg Ile Ser Gly Thr
           130                   135                   140
Ser Ile Ala Phe Lys Asn Ile Ala Ser Lys Ile Ala Asn Glu Leu Lys
```

Leu

<210> 2255
<211> 117
<212> PRT
<213> Homo sapiens

<400> 2255
Met Tyr Lys Val Glu Tyr Leu Phe Thr Ser Gln Cys Ile Arg Asn Leu
 1   5   10   15
Phe Thr Gln Ala Ile Ile Leu Lys Thr Ala Leu Gln Val Val Cys Glu
                20   25   30
Thr Phe Pro Glu Phe Ile Ser Thr Ser Ala Leu Ser Val Ala Ser Ser
            35   40   45
Ile Pro Glu Leu Lys Lys Arg Pro Leu Pro Thr Ala Ser Asn Pro Ala
        50   55   60
Phe Leu Val Ile Leu Leu Phe Phe Phe Asn Phe Lys Phe Trp Asp Thr
65   70   75   80
Cys Ala Glu His Ala Gly Leu Leu His Arg Tyr Thr Cys Ala Tyr Val
                85   90   95
Tyr Leu Cys Asn Met Val Val Thr Val Asn Met Val Val Tyr Cys Ile
                100   105   110
Tyr Gln Pro Val Ile
            115

<210> 2256
<211> 121
<212> PRT
<213> Homo sapiens

<400> 2256
Met Met Gly Arg Gly Val Arg Trp Gly Ser Arg Ala Trp Glu Arg Met

```
 1              5                  10                 15
Ala His Ala Leu Lys Val His Glu Arg Pro Pro Leu Pro Thr Ser Ala
                20                  25                 30
Glu Thr Ser Leu Asp Thr Lys Ser Val Ser Glu Gly His Leu Lys Arg
                35                  40                 45
Asn Ile Val Val Lys Thr Val Glu Met Arg Asp Gly Glu Val Arg Arg
      50                  55                 60
Asp Leu Gly Pro Val Arg Leu Trp Leu Ala Pro Gly Ile Leu Lys Ala
65                  70                 75                 80
Arg Pro Trp Arg Lys Ala Trp Gly Trp His Ile Glu Gly Ser Gln Gln
                85                  90                 95
Leu Pro Val Ala Pro Gln Gly Ile Leu Glu Glu Ser Lys Glu Thr Glu
               100                 105                110
Cys Asn Ser Val Ser Ser Val Pro Pro
           115                 120
```

<210> 2257

<211> 193

<212> PRT

<213> Homo sapiens

<400> 2257

```
Met Pro Gln Ala Glu Leu Gly Ile Gln Val Cys Thr Cys Arg Leu Arg
 1              5                  10                 15
Gly Ser Val Ser Arg Cys Cys Ser His Arg Glu Phe Arg Arg Gln Pro
                20                  25                 30
Ser Pro Cys Ala Ala Gly Ile Gly Leu Leu His Leu Gly Ser Thr Ala
                35                  40                 45
Ser Arg Gln Val Lys Pro Pro Arg Leu Pro Pro Pro Trp Gly Arg
      50                  55                 60
Ser Gly Glu Lys Leu Pro Phe Thr Pro Phe Pro Gly Cys Ser Leu Ser
65                  70                 75                 80
Arg Trp His Ala Ser Pro Gln Thr Gln Val Ala Phe Gly Pro Arg Trp
                85                  90                 95
Val Ser Leu Leu Pro Leu Pro His Thr Pro Ser Gly His Trp Asp Pro
```

```
                100                      105                      110
Cys Pro Ser Asp Val Leu Gly Ser Arg Ser Gly Ala Ser His Cys Gly
                115                      120                      125
Lys Arg Pro Gly Ala Trp Pro Glu Arg Gln Pro Arg Ala Gly Pro Ser
                130                      135                      140
Pro Glu Ser Trp Ser Arg Ala Arg Glu Ala Pro Ile Pro Pro Arg Pro
145                      150                      155                      160
Ala Ala Leu Ser Ala Val Ser Ser Ile Cys Ser Ser Phe His Pro Leu
                165                      170                      175
Val Gly Pro Pro Ser Pro Phe Pro Leu Pro Leu Val Pro Ser Ala Gly
                180                      185                      190
Arg
```

<210> 2258

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2258

```
Met Val Phe Gly Phe Pro Phe Leu Ser Tyr Phe Thr Glu Asn Asn Gly
 1               5                       10                      15
Leu Gln Leu His Pro Ser Cys Cys Lys Arg His His Phe Val Pro Phe
                20                      25                      30
Tyr Gly Cys Val Val Phe His Gly Val Tyr Thr Ser Arg Phe Leu Tyr
                35                      40                      45
Leu Leu Ile Gly Arg Trp Ala Leu Lys Leu Ala Pro Cys Ile Cys Asn
        50                      55                      60
Cys Glu Leu Cys Cys Cys Lys Arg Val Cys Met Cys Leu Phe His Ile
65                      70                      75                      80
Val Thr Ser Phe Pro Leu Thr Arg Leu Gln Ile Ile Leu Arg Gly Tyr
                85                      90                  •   95
Ser Tyr Gln Asn Arg Val Ala Leu Val
                100                     105
```

<210> 2259

<211> 171

<212> PRT

<213> Homo sapiens

<400> 2259

```
Met Leu Arg Val Pro Gly Ser Cys Cys Pro Cys Pro Arg Pro Cys Pro
 1               5                  10                  15
Pro Leu Ala Leu Gln Ser Pro Thr Pro Met Pro Thr Ser Gly Ser Pro
                20                  25                  30
Leu Gln Ala Leu Leu Leu Tyr Pro Leu Asp Gln Trp Cys Leu Ala Gly
            35                  40                  45
Cys Ser Arg Pro Leu Leu Val Gln Pro Gln Leu Pro Lys Gly Asp Ser
        50                  55                  60
Lys Pro Ser Leu Arg Ala Glu Asp Leu Leu Gly Asp Arg Lys Arg Leu
65                  70                  75                  80
Gly Ser Leu Ser Gly Ala Ser Ser His Pro Cys Cys Leu Trp Ile Met
                85                  90                  95
Pro Thr Ala Pro Ile Ser Phe Gln Glu Ala Leu Ala Gln His Lys Thr
                100                 105                 110
Gly Ser Leu Ser Phe Leu Pro Ser Ser Ser Leu Pro Pro Ser Ser Ile
            115                 120                 125
Thr Arg Thr Leu Val Thr Thr Gln Asn His Trp Val Val Pro Leu His
        130                 135                 140
Pro Leu Pro Val Leu Cys His Pro Pro Ser Lys Ala Pro Ala Leu Leu
145                 150                 155                 160
Cys Pro Ser Thr Gln Gly Ser Leu His Ser Ala
                165                 170
```

<210> 2260

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2260

Met Arg Asp Leu Thr Arg Gly His Val Ser Ala Ser Arg Phe Ile Val
1   5   10   15

Cys Leu Gly Trp Pro Leu Glu Ala Leu Asp Leu Ile Val Pro Val Trp
            20   25   30

Lys Phe Leu Asn Ile Glu Asn Ile Ile His Met Met Thr Phe Phe Phe
        35   40   45

Leu Ser Glu Asp Thr Leu Ile Phe Ala Ile Ala Arg Phe Arg Asn Pro
    50   55   60

Thr Gln Thr Gly Leu Ser Lys Glu Gly Val Tyr Cys Ser Cys Ser Trp
65   70   75   80

Glu Ala Trp Thr Gly Leu Gly Pro Gly Ala Leu Thr Ser Ser Gln Leu
                85   90   95

Gly Gln Gln Val Glu Arg Gly Leu Leu Leu Pro Ser Gly Cys His
                100   105   110

<210> 2261

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2261

Met Asn Thr Cys Ser Gln Gly Thr Leu His Asp Gln Leu Cys Phe Arg
1   5   10   15

Glu Gly Arg Ser Ser Pro Phe Lys Ala Arg Ile Pro Arg Arg Ser Val
            20   25   30

His Tyr Leu Pro Ser Glu Leu Trp Ala Tyr Leu Tyr Phe Leu His Phe
        35   40   45

Ser Arg Gln Glu Gly Gly Ser Ser Thr Glu Asn Pro Leu Ser Trp Val
    50   55   60

Lys Glu His Ser Leu Gly Cys Leu Gly Glu Lys Ile Ser Ile Pro Arg
65   70   75   80

Ser Cys Ser Leu Gly Val Arg Trp Glu Gln Arg Arg Gln Ser Val Gly
                85   90   95

Pro Leu Trp Arg Gln Gln Gly Gly Val Pro Cys Gly His

100   105

<210> 2262

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2262

Met Arg Ala Gln Ala Asn Ser Gly Lys Phe Leu Ser Pro Arg Ala Glu
1   5   10   15

His Glu His Leu Glu Ala Lys Gly Ala Ala Trp Leu Leu Pro Thr Lys
            20   25   30

Glu Thr Asp Gly Val Gln Leu Ile Pro Met Phe Leu Leu His Phe Thr

            35   40   45

Pro Lys Phe Pro Ala Arg Ser Lys Ala Ser Pro Gly Thr Leu Val Phe
        50   55   60

Leu Pro Lys Ala Ser Gln Gly His Pro Ala Ile Leu Met Arg Leu Pro
65   70   75   80

Val Pro Ser Cys Pro Ser Pro His Pro Arg Ile Asn His Gln Arg Arg
                85   90   95

Thr Val Tyr Met Ser Ser Ser Leu Cys Leu Gly Arg Glu Thr Asn Lys
            100   105   110

Arg Met Arg Arg Leu Gly Arg Pro Leu Ala Val Thr Ser Ser Asn Cys
            115   120   125

Pro Cys Gln Gly Phe Met Glu Glu Glu Thr Glu Ala Ala Leu Cys
    130   135   140

<210> 2263

<211> 197

<212> PRT

<213> Homo sapiens

<400> 2263

```
Met Ala Leu Asn Asn Phe Leu Phe Ala Gln Cys Ala Cys Tyr Phe Leu
 1               5                   10                  15
Ala Phe Leu Phe Ser Phe Val Val Val Val Pro Leu Ser Glu Asn Gly
                20                  25                  30
His Asp Phe Arg Gly Arg Cys Leu Leu Phe Thr Glu Gly Met Trp Leu
            35                  40                  45
Ser Ala Asn Leu Thr Val Gln Glu Arg Glu Arg Phe Thr Val Gln Glu
        50                  55                  60
Trp Gly Pro Pro Ala Ala Cys Arg Phe Ser Leu Leu Ala Ser Leu Leu
65              70                  75                  80
Ser Leu Leu Leu Ala Ala Ala His Ala Trp Arg Thr Leu Phe Phe Leu
                85                  90                  95
Cys Lys Gly His Glu Gly Ser Phe Phe Ser Ala Phe Leu Asn Leu Leu
                100                 105                 110
Val Ser Ala Phe Val Val Phe Leu Val Phe Ile Ala Ser Thr Ile Val
            115                 120                 125
Ser Val Gly Phe Thr Met Trp Cys Asp Thr Ile Thr Glu Lys Gly Thr
        130                 135                 140
Val Pro His Ser Cys Glu Glu Leu Gln Asp Ile Asp Leu Glu Leu Gly
145                 150                 155                 160
Val Asp Asn Ser Ala Phe Tyr Asp Gln Phe Ala Ile Ala Gln Val Gly
                165                 170                 175
Gly Ser Gly Gln Glu Gly Arg Leu Ala Met Leu Gly Gly Gly His Leu
                180                 185                 190
Leu Leu Asp Ile Cys
                195
```

<210> 2264

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2264

```
Met Gly Asn Val Cys Ser Pro Tyr Ser Arg Cys Leu Cys Leu Thr Leu
 1               5                   10                  15
```

Gly Ala Cys Pro Ala Pro Phe Gln Pro Pro Leu Pro Cys Cys Ser Pro
            20   25   30
Pro Ser Ser Gly Leu Ser Thr Asp Leu Lys Ala Pro Leu Gly Gln Ile
            35   40   45
Pro Pro Glu Ser Leu Ser His Pro Gln Gly Thr Gln Ala Arg Pro Ser
        50   55   60
Trp Ser Ser Trp Thr Val Leu Gln Glu Ala Ala Gln Gln Arg Leu Trp
65   70   75   80
Asp Gln Gln Cys Gln Thr Thr Val Phe Thr Cys Ser Pro His Gly Val
                85   90   95
Leu Met Cys Gly Trp Pro Leu Ala Ala Pro Glu Gln
            100   105

<210> 2265
<211> 100
<212> PRT
<213> Homo sapiens

<400> 2265
Met Asn Asn Ser Ser Leu Leu Arg Pro Ser Pro Lys Ala Gln Gly Pro
1   5   10   15
Leu Val Ser Ala Val Cys Thr Ser Ser Val Arg Arg Gln Asp Ser Arg
            20   25   30
Ser Met Lys Arg Ala Gly Gln Lys Thr Pro Thr Leu Ala Gly Arg His
            35   40   45
Val Pro Leu Lys Ile Lys Lys Glu Ala Ile Trp Glu Gln Cys Ser Ser
        50   55   60
Tyr Val Arg Pro Gly His Phe Leu Phe Thr Gly Asp Tyr Lys Thr Phe
65   70   75   80
Val Leu Ser Ser Leu Asp Val Asp Ala Ile Leu Gly Leu Ser Pro Pro
                85   90   95
Ala Pro Arg His
            100

<210> 2266

<211> 169

<212> PRT

<213> Homo sapiens

<400> 2266

```
Met Asn Ser Leu His Ala Gly Arg Gln Gln Ala Phe Gln Glu Asp Pro
 1               5                  10                  15
Gly Pro Thr Gly Leu Gly Lys Asp Thr Ser Ala Gly Arg Arg Thr Arg
                20                  25                  30
Ser Thr Glu Ala Leu Gln Ser Ala Leu Ser Ala Lys Leu Ile Gly Arg
            35                  40                  45
Gly Gly Gly Leu Pro Asn Gly Cys Thr Gly Thr Pro Thr Thr Cys His
        50                  55                  60
Leu Pro Gly Gln Tyr Leu Gly Thr Glu Leu Ser Pro Lys Ser Lys Asn
65                  70                  75                  80
Ile Ser Lys His Thr Val Glu Lys Trp Arg Leu Glu Val Thr Val His
                85                  90                  95
Arg Glu Pro Ala Trp Asn Leu Trp Ala Gly Thr Arg Ala Gly Gln Phe
                100                 105                 110
Gln Thr Arg Gly Ser Arg Lys Gln Thr Gln Pro Arg Pro Leu Pro Arg
            115                 120                 125
Thr His Leu Leu Pro Pro Pro Thr Pro Arg Arg Pro His Gln Glu Ser
        130                 135                 140
His Pro Trp Ala Pro Thr Met His Gln Thr Ala His Tyr Cys Arg Arg
145                 150                 155                 160
Asn Ala Thr Arg Asp Lys Pro Pro Ala
                165
```


<210> 2267

<211> 482

<212> PRT

<213> Homo sapiens

<400> 2267

Met Ala Thr Gly Gly Gly Ile Arg Ala Met Thr Ser Leu Tyr Gly Gln
1   5   10   15

Leu Ala Gly Leu Lys Glu Leu Gly Leu Leu Asp Cys Val Ser Tyr Ile
            20   25   30

Thr Gly Ala Ser Gly Ser Thr Trp Ala Leu Ala Asn Leu Tyr Glu Asp
            35   40   45

Pro Glu Trp Ser Gln Lys Asp Leu Ala Gly Pro Thr Glu Leu Leu Lys
        50   55   60

Thr Gln Val Thr Lys Asn Glu Leu Gly Val Leu Ala Pro Ser Gln Leu
65   70   75   80

Gln Arg Tyr Arg Gln Glu Leu Ala Glu Arg Ala Arg Leu Gly Tyr Pro
            85   90   95

Ser Cys Phe Thr Asn Leu Trp Ala Pro Ile Asn Glu Ala Leu Leu His
            100   105   110

Asp Glu Pro His Asp His Lys Leu Ser Asp Gln Arg Glu Ala Leu Ser
            115   120   125

His Gly Gln Asn Pro Leu Pro Ile Tyr Cys Ala Leu Asn Thr Lys Gly
        130   135   140

Gln Ser Leu Thr Thr Phe Glu Phe Gly Glu Trp Cys Glu Phe Ser Pro
145   150   155   160

Tyr Glu Val Gly Phe Pro Lys Tyr Gly Ala Phe Ile Pro Ser Glu Leu
            165   170   175

Phe Gly Ser Glu Phe Phe Met Gly Gln Leu Met Lys Arg Leu Pro Glu
            180   185   190

Ser Arg Ile Cys Phe Leu Glu Gly Ile Trp Ser Asn Leu Tyr Ala Ala
            195   200   205

Asn Leu Gln Asp Ser Leu Tyr Trp Ala Ser Glu Pro Ser Gln Phe Trp
        210   215   220

Asp Arg Trp Val Arg Asn Gln Ala Asn Leu Asp Lys Glu Gln Val Pro
225   230   235   240

Leu Leu Lys Ile Glu Glu Pro Pro Ser Thr Ala Gly Arg Ile Ala Glu
            245   250   255

Phe Phe Thr Asp Leu Leu Thr Trp Arg Pro Leu Ala Gln Ala Thr His
            260   265   270

Asn Phe Leu Arg Gly Leu His Phe His Lys Asp Tyr Phe Gln His Pro
            275   280   285

His Phe Ser Thr Trp Lys Ala Thr Thr Leu Asp Gly Leu Pro Asn Gln
     290   295   300

Leu Thr Pro Ser Glu Pro His Leu Cys Leu Leu Asp Val Gly Tyr Leu
305   310   315   320

Ile Asn Thr Ser Cys Leu Pro Leu Leu Gln Pro Thr Arg Asp Val Asp
             325   330   335

Leu Ile Leu Ser Leu Asp Tyr Asn Leu His Gly Ala Phe Gln Gln Leu
             340   345   350

Gln Leu Leu Gly Arg Phe Cys Gln Glu Gln Gly Ile Pro Phe Pro Pro
             355   360   365

Ile Ser Pro Ser Pro Glu Glu Gln Leu Gln Pro Arg Glu Cys His Thr
             370   375   380

Phe Ser Asp Pro Thr Cys Pro Gly Ala Pro Ala Val Leu His Leu Pro
385   390   395   400

Leu Val Ser Asp Ser Phe Arg Glu Tyr Ser Ala Pro Gly Val Arg Arg
             405   410   415

Thr Pro Glu Glu Ala Ala Ala Gly Glu Val Asn Leu Ser Ser Ser Asp
             420   425   430

Ser Pro Tyr His Tyr Thr Lys Val Thr Tyr Ser Gln Glu Asp Val Asp
             435   440   445

Lys Leu Leu His Leu Thr His Tyr Asn Val Cys Asn Asn Gln Glu Gln
             450   455   460

Leu Leu Glu Ala Leu Arg Gln Ala Val Gln Arg Arg Arg Gln Arg Arg
465   470   475   480

Pro His

<210> 2268
<211> 520
<212> PRT
<213> Homo sapiens

<400> 2268
Met Asn Tyr Lys Gln Lys Asp Leu Asp Asn Phe Thr Ser Lys Gly Lys
  1   5   10   15

His Leu Leu Ser Glu Leu Lys Lys Ile His Ser Ser Asp Phe Ser Leu
     20   25   30

Val Lys Thr Asp Met Glu Ser Thr Val Asp Lys Trp Leu Asp Val Ser
    35   40   45

Glu Lys Leu Glu Glu Asn Met Asp Arg Leu Arg Val Ser Leu Ser Ile
  50   55   60

Trp Asp Asp Val Leu Ser Thr Arg Asp Glu Ile Glu Gly Trp Ser Asn
65   70   75   80

Asn Cys Val Pro Gln Met Ala Glu Asn Ile Ser Asn Leu Asp Asn His
     85   90   95

Leu Arg Ala Glu Glu Leu Leu Lys Glu Phe Glu Ser Glu Val Lys Asn
    100   105   110

Lys Ala Leu Arg Leu Glu Glu Leu His Ser Lys Val Asn Asp Leu Lys
    115   120   125

Glu Leu Thr Lys Asn Leu Glu Thr Pro Pro Asp Leu Gln Phe Ile Glu
  130   135   140

Ala Asp Leu Met Gln Lys Leu Glu His Ala Lys Glu Ile Thr Glu Val
145   150   155   160

Ala Lys Gly Thr Leu Lys Asp Phe Thr Ala Gln Ser Thr Gln Val Glu
    165   170   175

Lys Phe Ile Asn Asp Ile Thr Thr Trp Phe Thr Lys Val Glu Glu Ser
    180   185   190

Leu Met Asn Cys Ala Gln Asn Glu Thr Cys Glu Ala Leu Lys Lys Val
    195   200   205

Lys Asp Ile Gln Lys Glu Leu Gln Ser Gln Gln Ser Asn Ile Ser Ser
  210   215   220

Thr Gln Glu Asn Leu Asn Ser Leu Cys Arg Lys Tyr His Pro Ala Glu
225   230   235   240

Leu Glu Ser Leu Gly Arg Ala Met Thr Gly Leu Ile Lys Lys His Glu
    245   250   255

Ala Val Ser Gln Leu Cys Ser Lys Thr Gln Ala Ser Leu Gln Glu Ser
    260   265   270

Leu Glu Lys His Phe Ser Glu Ser Met Gln Glu Phe Gln Glu Trp Phe
  275   280   285

Leu Gly Ala Lys Ala Ala Ala Lys Glu Ser Ser Asp Arg Thr Gly Asp
  290   295   300

Ser Lys Val Leu Glu Ala Lys Leu His Asp Leu Gln Asn Ile Leu Asp
305   310   315   320

Ser Val Ser Asp Gly Gln Ser Lys Leu Asp Ala Val Thr Gln Glu Gly
                325   330   335

Gln Thr Leu Tyr Ala His Leu Ser Lys Gln Ile Val Ser Ser Ile Gln
                340   345   350

Glu Gln Ile Thr Lys Ala Asn Glu Glu Phe Gln Ala Phe Leu Lys Gln
                355   360   365

Cys Leu Lys Asp Lys Gln Ala Leu Gln Asp Cys Ala Ser Glu Leu Gly
        370   375   380

Ser Phe Glu Asp Gln His Arg Lys Leu Asn Leu Trp Ile His Glu Met
385   390   395   400

Glu Glu Arg Phe Asn Thr Glu Asn Leu Gly Glu Ser Lys Gln His Ile
                405   410   415

Pro Glu Lys Lys Asn Glu Val His Lys Val Glu Met Phe Leu Gly Glu
                420   425   430

Leu Leu Ala Ala Arg Glu Ser Leu Asp Glu Leu Ser Gln Arg Gly Gln
        435   440   445

Leu Leu Ser Glu Glu Gly His Gly Ala Gly Gln Glu Gly Arg Leu Cys
        450   455   460

Ser Gln Leu Leu Thr Ser His Gln Asn Leu Leu Arg Met Thr Lys Glu
465   470   475   480

Lys Leu Arg Ser Cys Gln Val Ala Leu Gln Glu His Glu Ala Leu Glu
                485   490   495

Glu Ala Leu Gln Ser Met Trp Phe Trp Val Lys Ala Ile Gln Asp Arg
                500   505   510

Leu Ala Cys Ala Val Phe Thr Pro
        515   520

<210> 2269

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2269

```
Met Ile Val Ser Ser Gln Gln Asp Leu Val Lys Cys Val Ala Thr His
 1               5                  10                  15
Pro Arg Cys Ser His Asp Ser Glu Leu Ser Gly Asp Leu Val Lys Cys
                20                  25                  30
Val Glu Thr Pro Pro Cys Cys Ser His Glu Ser Glu Pro Arg Glu Thr
            35                  40                  45
Trp Leu Ser Val Gln His Leu Pro Leu Ala Val Leu Ile Thr Val Ser
        50                  55                  60
Cys His Glu Ile Trp Leu Phe Arg Ser Val Trp His Leu Pro Leu Cys
65                  70                  75                  80
Cys Ser His Asp Ser Glu Leu Ser Arg Asp Leu Val Lys His Val Ala
                85                  90                  95
Ser Pro Pro Ser Leu Ser Leu Pro Pro Ala Leu Ala Met
            100                 105
```

<210> 2270

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2270

```
Met Cys Pro Thr Cys Ala Leu Arg Val Val Pro Gly Leu Ala Arg Ala
 1               5                  10                  15
Gln Cys Ser Ser Ser Pro Ser Ser Leu Phe Pro Pro Leu Met Lys His
                20                  25                  30
Thr Ala Cys Pro Ser His Val Pro Val Gly Arg Arg Thr Leu Leu Pro
            35                  40                  45
Arg Pro Glu Arg Val His Met Met Cys Ser Met His Ser Pro Cys Pro
        50                  55                  60
Pro Ala Arg Pro Ala Glu Asp Lys Met Gly Gly Pro Gly Ser Leu Ser
65                  70                  75                  80
Pro Asn Arg Pro Cys Pro Leu Cys Ser Arg Val Arg Trp Arg Val Phe
                85                  90                  95
Leu Cys His Trp Arg Val Thr
            100
```

<210> 2271
<211> 103
<212> PRT
<213> Homo sapiens

<400> 2271

```
Met Arg Gln Ser Leu Val Leu Ser Pro Lys Leu Glu Cys Ser Gly Thr
1               5                   10                  15
Ile Ser Gly His Cys Asn His Arg Leu Pro Cys Ser Asn Asn Ser Pro
                20                  25                  30
Ala Ser Ala Pro Arg Val Ala Gly Ile Thr Ser Val Cys His His Ala
            35                  40                  45
Gln Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe Tyr His Val Gly
        50                  55                  60
Gln Ala Gly Leu Glu Leu Leu Thr Ser Ser Asp Leu Pro Ser Ser Ala
65                  70                  75                  80
Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His Thr Trp Pro Lys
                85                  90                  95
Leu Val Tyr Ile Arg Thr Arg
                100
```

<210> 2272
<211> 152
<212> PRT
<213> Homo sapiens

<400> 2272

```
Met Ile Leu Gly Met Gly Leu Trp Ile Asp Pro Pro Arg Asp Glu Lys
1               5                   10                  15
Ala Gly Arg Ile Cys Gln Gln Arg His Gly Ala Asp Pro Ala Arg Cys
                20                  25                  30
Pro Arg Ala Val Pro Ser Ala Gln Arg Gly Ala Val His His Pro Gly
            35                  40                  45
```

Tyr Trp Asn Pro Leu Pro Arg Ile Phe Phe Ser Pro Ser Thr Thr Ala
  50   55   60

Glu Asn Gln Ser Ala Arg Pro Ser Pro Val Arg Cys Leu His Ser Gly
65   70   75   80

Thr Ser Ala Leu Thr Ser Cys Lys Pro Asn Leu Thr Phe Thr Gly Ser
     85   90   95

Lys Ile Ser Ile Ser Gly Ser Gln Trp Ser Asp Pro Thr Ser Pro Pro
     100   105   110

Ser Gln Gly Gln Thr Thr Glu Glu Trp Ser Tyr Leu Val Phe Leu His
     115   120   125

Phe Pro Ala Lys Gly Lys Met Val Leu Pro Ala Lys Leu Ser Leu Gln
  130   135   140

Pro Gly Gly Ala Ser Ile Lys Val
145   150

<210> 2273

<211> 164

<212> PRT

<213> Homo sapiens

<400> 2273

Met Ala Pro Trp Ser Tyr Phe Leu Ser Gln Thr Phe Ser His Ser Phe
1   5   10   15

Asp Leu Ile Gln Asp Phe Lys Ile Leu Lys Ser Ser Pro Ala Lys Gly
     20   25   30

Arg Met Gly Gly His Val Asn Asp Lys Gln Arg Arg Thr Leu Val Asn
     35   40   45

Asp Lys Asp Arg Phe Leu Pro Val Met His Tyr Cys Asn Gln Glu Arg
  50   55   60

Ser Pro Ala Arg Ala Asp Phe Asp Leu Cys Arg Gly Asp Trp Val Leu
65   70   75   80

Ser Arg Glu Asn Glu Gly Thr Arg Cys Gly Gly Ser Cys Met Pro Val
     85   90   95

Ile Pro Ala Leu Trp Glu Ala Asp Val Val Gly Ser Leu Gly Ile Gly
     100   105   110

Ser Leu Arg Pro Ala Trp Leu Thr Phe Phe Phe Pro Ser Leu Pro Lys
       115   120   125

Lys Thr Lys Asn Lys Asn Trp Pro Ala Ala Val Ala Arg Pro Val Val
     130   135   140

Pro Ala Thr Arg Gly Ala Glu Val Gly Glu Leu Leu Gly Pro Gly Arg
145   150   155   160

Arg Arg Leu Arg

<210> 2274

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2274

Met Pro Leu Ser Arg Arg Ser Gly Asp Ser Pro Ala Pro Arg Ile Pro
 1   5   10   15

Gly Trp Arg Asp Ala Ser Arg Pro Arg Gly Leu Val Ala Arg Ala Gly
        20   25   30

Arg Arg Thr Arg Arg Arg Ala Leu Pro Gly Leu Ala Trp Ala Cys Ser
        35   40   45

Glu Pro Gly Cys Phe Ser Val Thr Thr Gln Ile Gly Gly Ile Trp Arg
     50   55   60

Phe Cys Gly Ser Pro Ala Ala Lys Leu Arg Gly Arg Arg Gly Leu Glu
65   70   75   80

Ala Cys Thr Thr Cys Ser Pro Arg Pro Ser Met His Pro Gly Trp Asn
        85   90   95

Ala Val Val Gln Thr Arg Leu Ala Ala Ala Phe Thr Ser Trp Ala Gln
        100   105   110

Ala Leu Leu Pro Pro Gln Pro Cys Lys
        115   120

<210> 2275

<211> 197

<212> PRT
<213> Homo sapiens

<400> 2275

Met Leu Asn Gly Thr His Gly Pro Ser Ser Glu Lys Lys Ser Asn Ile
1   5   10   15

Pro Asp Leu Ser Ile Tyr Leu Lys Gly Glu Asp Ala Phe Asp Ala Leu
                20   25   30

Pro Pro Ser Leu Pro Pro Pro Pro Pro Ala Arg His Ser Leu Ile
            35   40   45

Glu His Ser Lys Pro Pro Gly Ser Ser Ser Arg Pro Ser Ser Gly Gln
        50   55   60

Asp Leu Leu Leu Leu Pro Ser Asp Pro Phe Val Asp Leu Ala Ser Gly
65   70   75   80

Gln Val Pro Leu Pro Pro Ala Arg Arg Leu Pro Gly Glu Asn Val Lys
                85   90   95

Thr Asn Arg Thr Ser Gln Asp Tyr Asp Gln Leu Pro Ser Cys Ser Asp
                100   105   110

Gly Ser Gln Ala Pro Ala Arg Pro Pro Lys Pro Arg Pro Arg Arg Thr
            115   120   125

Ala Pro Glu Ile His His Arg Lys Pro His Gly Pro Glu Ala Ala Leu
    130   135   140

Glu Asn Val Asp Ala Lys Ile Ala Lys Leu Met Gly Glu Gly Tyr Ala
145   150   155   160

Phe Glu Glu Val Lys Arg Ala Leu Glu Ile Ala Gln Asn Asn Val Glu
                165   170   175

Val Ala Arg Ser Ile Leu Arg Glu Phe Ala Phe Pro Pro Pro Val Ser
            180   185   190

Pro Arg Leu Asn Leu
        195

<210> 2276
<211> 108
<212> PRT
<213> Homo sapiens

<400> 2276

Met Gln Phe Glu Phe Met Ile Glu Ser Ile Leu Tyr Ala Arg Asp Ala
1   5   10   15

Trp Leu Lys Glu Asp Gly Val Ile Trp Pro Thr Met Ala Ala Leu His
            20   25   30

Leu Val Pro Cys Ser Ala Asp Lys Asp Tyr Arg Ser Lys Val Leu Phe
            35   40   45

Trp Asp Asn Ala Tyr Glu Phe Asn Leu Ser Ala Leu Lys Ser Leu Ala
        50   55   60

Val Lys Glu Phe Phe Ser Lys Pro Lys Tyr Asn His Ile Leu Lys Pro
65   70   75   80

Glu Asp Cys Leu Ser Glu Pro Cys Thr Ile Leu Gln Leu Asp Met Arg
                85   90   95

Thr Val Gln Ile Ser Asp Leu Glu Val Arg Lys Arg
                100   105

<210> 2277
<211> 213
<212> PRT
<213> Homo sapiens

<400> 2277

Met Asp Arg Arg Lys Gly Asp Arg Thr Leu Pro Val Arg Thr Pro Thr
1   5   10   15

Met Ala Gly Gly Leu Phe Ser Ile Asp Arg Asn Tyr Phe Glu Glu Ile
            20   25   30

Gly Thr Tyr Asp Ala Gly Met Asp Ile Trp Gly Gly Glu Asn Leu Glu
            35   40   45

Met Ser Phe Arg Ile Trp Gln Cys Gly Gly Ser Leu Glu Ile Val Thr
        50   55   60

Cys Ser His Val Gly His Val Phe Arg Lys Ala Thr Pro Tyr Thr Phe
65   70   75   80

Pro Gly Gly Thr Gly His Val Ile Asn Lys Asn Asn Arg Arg Leu Ala
                85   90   95

```
Glu Val Trp Met Asp Glu Phe Lys Asp Phe Phe Tyr Ile Ile Ser Pro
            100             105         110
Gly Val Val Lys Val Asp Tyr Gly Asp Val Ser Val Arg Lys Thr Leu
            115             120         125
Arg Glu Asn Leu Lys Cys Lys Pro Phe Ser Trp Tyr Leu Glu Asn Ile
    130             135         140
Tyr Pro Asp Ser Gln Ile Pro Arg Arg Tyr Tyr Ser Leu Gly Glu Ile
145             150         155                 160
Arg Asn Val Glu Thr Asn Gln Cys Leu Asp Asn Met Gly Arg Lys Glu
            165             170         175
Asn Glu Lys Val Gly Ile Phe Asn Cys His Gly Met Gly Gly Asn Gln
            180             185         190
Thr Gln Trp Thr Cys Asn His Val Lys Met Pro Pro Tyr Glu Arg Lys
            195             200         205
Ser Val Met Gly Ile
            210
```

<210> 2278

<211> 352

<212> PRT

<213> Homo sapiens

<400> 2278

```
Met Lys Asn Trp Arg Leu Ser Ser Trp Leu Trp Ser Gly Ala Ser Pro
1               5               10              15
Gln Pro Trp Arg Ser Ser Lys Ala Lys Pro Arg Pro Glu Ala Pro His
            20              25              30
Pro Gly Leu Glu Thr Thr Leu Gln Glu Arg Leu Ala Leu Tyr Gln Thr
            35              40              45
Ala Ile Glu Ser Ala Arg Gln Ala Gly Asp Ser Ala Lys Met Arg Arg
    50              55              60
Tyr Asp Arg Gly Leu Lys Thr Leu Glu Asn Leu Leu Ala Ser Ile Arg
65              70              75                  80
Lys Gly Asn Ala Ile Asp Glu Ala Asp Ile Pro Pro Pro Val Ala Ile
            85              90              95
```

```
Gly Lys Gly Pro Ala Ser Thr Pro Thr Tyr Ser Pro Ala Pro Thr Gln
            100                 105                 110
Pro Ala Pro Arg Ile Ala Ser Ala Pro Glu Pro Arg Val Thr Leu Glu
            115                 120                 125
Gly Pro Ser Ala Thr Ala Pro Ala Ser Ser Pro Gly Leu Ala Lys Pro
            130                 135                 140
Gln Met Pro Pro Gly Pro Cys Ser Pro Gly Pro Leu Ala Gln Leu Gln
145                 150                 155                 160
Ser Arg Gln Arg Asp Tyr Lys Leu Ala Ala Leu His Ala Lys Gln Gln
                165                 170                 175
Gly Asp Thr Thr Ala Ala Ala Arg His Phe Arg Val Ala Lys Ser Phe

            180                 185                 190
Asp Ala Val Leu Glu Ala Leu Ser Arg Gly Glu Pro Val Asp Leu Ser
            195                 200                 205
Cys Leu Pro Pro Pro Pro Asp Gln Leu Pro Pro Asp Pro Pro Ser Pro
            210                 215                 220
Pro Ser Gln Pro Pro Thr Pro Ala Thr Ala Pro Ser Thr Thr Glu Val
225                 230                 235                 240
Pro Pro Pro Pro Arg Thr Leu Leu Glu Ala Leu Glu Gln Arg Met Glu
                245                 250                 255
Arg Tyr Gln Val Ala Ala Ala Gln Ala Lys Ser Lys Gly Asp Gln Arg
                260                 265                 270
Lys Ala Arg Met His Glu Arg Ile Val Lys Gln Tyr Gln Asp Ala Ile
                275                 280                 285
Arg Ala His Lys Ala Gly Arg Ala Val Asp Val Ala Glu Leu Pro Val
            290                 295                 300
Pro Pro Gly Phe Pro Pro Ile Gln Gly Leu Glu Ala Thr Lys Pro Thr
305                 310                 315                 320
Gln Gln Ser Leu Val Gly Val Leu Glu Thr Ala Met Lys Leu Ala Asn
                325                 330                 335
Gln Asp Glu Gly Pro Glu Asp Glu Glu Asp Glu Val Pro Lys Lys Val
                340                 345                 350
```

<210> 2279

<211> 148
<212> PRT
<213> Homo sapiens

<400> 2279
Met Ala Arg Lys Gly Ala Arg Arg Pro Arg Gln Gly Pro Gly Ser His
1   5   10   15
Lys Trp Leu Gln Pro Gly Ser Arg Arg Glu Lys Glu Arg Ile Pro Gln
            20   25   30
Pro Pro Pro Pro Ala Arg Pro Pro Arg Asp Ala Ala Pro Arg Arg Val
            35   40   45
Leu Val Pro Ala Val Arg Arg Val Pro Glu Ser Gly His Phe Ala Gly
        50   55   60
Arg Pro Trp Ala Pro Gln Cys His Pro Lys Gly Leu Arg Arg Pro Ser
65   70   75   80
Ala Glu Ser His Ser Val Ala Gln Ala Gly Val Gln Cys His Asp Leu
                85   90   95
Gly Ser Leu Gln Pro Pro Pro Ser Ser Gly Asp Ser Pro Ala Ser
            100   105   110
Ala Ser Arg Val Ala Gly Ile Thr Ser Thr Val Pro Gly Thr Leu Ser
            115   120   125
Ala Leu Asp Asp Cys Cys Leu Ile Thr Glu Leu Pro Tyr Lys Pro Pro
            130   135   140
Ala Val Leu Tyr
145

<210> 2280
<211> 571
<212> PRT
<213> Homo sapiens

<400> 2280
Met Ala Pro Ser Leu Arg His Ser Val Gln Gln Phe His His His Pro
1   5   10   15
Ser Thr Ala Leu His Gly Glu Ser Val Ala His Ser Pro Arg Phe Ser

```
                 20                      25                      30
Pro Asn Pro Pro Gln Gln Gly Ala Val Arg Pro Gln Thr Leu Asn Phe
             35                      40                      45
Ser Ser Arg Ser Gln Thr Val Pro Ser Pro Thr Ile Asn Asn Ser Gly
         50                      55                      60
Gln Tyr Ser Arg Tyr Pro Tyr Ser Asn Leu Asn Gln Gly Leu Val Asn
65                      70                      75                      80
Asn Thr Gly Met Asn Gln Asn Leu Gly Leu Thr Asn Asn Thr Pro Met
                 85                      90                      95
Asn Gln Ser Val Pro Arg Tyr Pro Asn Ala Val Gly Phe Pro Ser Asn
                 100                     105                     110
Ser Gly Gln Gly Leu Met His Gln Gln Pro Ile His Pro Ser Gly Ser
             115                     120                     125
Leu Asn Gln Met Asn Thr Gln Thr Met His Pro Ser Gln Pro Gln Gly
         130                     135                     140
Thr Tyr Ala Ser Pro Pro Pro Met Ser Pro Met Lys Ala Met Ser Asn
145                     150                     155                     160
Pro Ala Gly Thr Pro Pro Pro Gln Val Arg Pro Gly Ser Ala Gly Ile
                 165                     170                     175
Pro Met Glu Val Gly Ser Tyr Pro Asn Ile Pro His Pro Gln Pro Ser
             180                     185                     190
His Gln Pro Pro Gly Ala Met Gly Ile Gly Gln Arg Asn Met Gly Pro
             195                     200                     205
Arg Asn Met Gln Gln Ser Arg Pro Phe Ile Gly Met Ser Ser Ala Pro
         210                     215                     220
Arg Glu Leu Thr Gly His Met Arg Pro Asn Gly Cys Pro Gly Val Gly
225                     230                     235                     240
Leu Gly Asp Pro Gln Ala Ile Gln Glu Arg Leu Ile Pro Gly Gln Gln
                 245                     250                     255
His Pro Gly Gln Gln Pro Ser Phe Gln Gln Leu Pro Thr Cys Pro Pro
                 260                     265                     270
Leu Gln Pro His Pro Gly Leu His His Gln Ser Ser Pro Pro His Pro
             275                     280                     285
His His Gln Pro Trp Ala Gln Leu His Pro Ser Pro Gln Asn Thr Pro
         290                     295                     300
Gln Lys Val Pro Val His Gln His Ser Pro Ser Glu Pro Phe Leu Glu
```

```
305                     310                     315                     320
Lys Pro Val Pro Asp Met Thr Gln Val Ser Gly Pro Asn Ala Gln Leu
                325                     330                     335
Val Lys Ser Asp Asp Tyr Leu Pro Ser Ile Glu Gln Gln Pro Gln Gln
                340                     345                     350
Lys Lys Lys Lys Lys Lys Asn Asn His Ile Val Ala Glu Asp Pro Ser
            355                     360                     365
Lys Gly Phe Gly Lys Asp Asp Phe Pro Gly Gly Val Asp Asn Gln Glu
        370                     375                     380
Leu Asn Arg Asn Ser Leu Asp Gly Ser Gln Glu Glu Lys Lys Lys Lys
385                     390                     395                     400
Lys Arg Ser Lys Ala Lys Lys Asp Pro Lys Glu Pro Lys Glu Pro Lys
                405                     410                     415
Glu Lys Lys Glu Pro Lys Glu Pro Lys Thr Pro Lys Ala Pro Lys Ile
                420                     425                     430
Pro Lys Glu Pro Lys Glu Lys Lys Ala Lys Thr Ala Thr Pro Lys Pro
            435                     440                     445
Lys Ser Ser Lys Lys Ser Ser Asn Lys Lys Pro Asp Ser Glu Ala Ser
        450                     455                     460
Ala Leu Lys Lys Lys Val Asn Lys Gly Lys Thr Glu Gly Pro Glu Asn
465                     470                     475                     480
Ser Asp Leu Asp Lys Thr Pro Pro Pro Ser Pro Pro Pro Glu Glu Asp
                485                     490                     495
Glu Asp Pro Gly Val Gln Lys Arg Arg Ser Ser Arg Gln Val Lys Arg
            500                     505                     510
Lys Arg Tyr Thr Glu Asp Leu Glu Phe Lys Ile Ser Asp Glu Glu Ala
            515                     520                     525
Asp Asp Ala Asp Ala Ala Gly Arg Asp Ser Pro Ser Asn Thr Ser Gln
        530                     535                     540
Ser Glu Gln Gln Glu Ser Val Asp Ala Glu Gly Pro Val Val Glu Lys
545                     550                     555                     560
Ile Met Ser Ser Arg Ser Val Lys Lys Lys
                565                     570
```

<211> 139
<212> PRT
<213> Homo sapiens

<400> 2281
Met Phe Ile Met Leu Phe Phe Leu Thr Ile Ser His Phe Leu Phe Pro
1   5   10   15
Ser Cys Pro Phe Phe Phe Phe Phe Phe Phe Glu Ser Glu Phe His
                20   25   30
Ser Cys Cys Pro Gly Trp Ile Ser Val Ala Arg Ser Arg Leu Thr Glu
            35   40   45
Thr Ser Ala Ser Arg Ile Gln Ala Ile Leu Leu Ser Arg Pro Ser Arg
            50   55   60
Trp Leu Gly Leu Gln Ala Cys Ala Thr Met Pro Gly Tyr Leu Val Val
65   70   75   80
Val Val Val Val Val Leu Leu Val Glu Thr Met Phe Leu His Phe Gly
                85   90   95
Gln Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Pro Ala Ala Ser Ala
                100   105   110
Ser Gln Ser Thr Gly Ile Thr Arg Met Arg Asp Arg Ala Gln Pro Pro
                115   120   125
Leu Ser Ile Tyr Ile Leu Gln Leu Leu Lys Leu
            130   135

<210> 2282
<211> 133
<212> PRT
<213> Homo sapiens

<400> 2282
Met Leu Trp Glu Trp Gly Val Cys Phe Gly Val Ser Asp Lys Phe Pro
1   5   10   15
Gly Asp Cys Ile Val Gln Pro Gln Ser Arg Thr Ser Thr Pro Gly Ser
                20   25   30
Leu Leu Ser Pro Thr Val Cys Tyr Gly Ala Leu Ser Val Thr Ser Leu

         35   40   45

Ile Ala Val Thr Lys Asp Arg Thr Gln Thr Ile Trp Val Thr Leu Gly

         50   55   60

Ala Asp Glu Gln Val Pro Gly Arg Lys Gly Leu Gly Ser Glu Asp Leu

65   70   75   80

Gly Cys Asp Leu Leu Gln Ile Val Ile Gly Leu Ala Leu Ser Thr Trp

             85   90   95

Glu Gln Arg Glu Leu Glu Ala Ser Pro Ala Cys Leu Gly Trp Lys Ala

         100   105   110

Gly Phe Pro Phe Ala Ala Gly Trp Leu Pro Phe Leu Thr Leu Ser Leu

         115   120   125

Gln Ser Tyr Asn Thr

     130

<210> 2283

<211> 453

<212> PRT

<213> Homo sapiens

<400> 2283

Met Leu His Arg Asp Ser Thr Ile Ser Asn Glu Ser Ser Gln Ser Cys

1   5   10   15

Ser Ser Gly Arg Gln Asn Ile Arg Leu His Ser Asp Ser Ser Ser Ser

         20   25   30

Thr Gln Val Phe Glu Ser Val Asp Glu Val Glu Gln Val Glu Ala Glu

         35   40   45

Gly Arg Leu Glu Glu Lys Gln Pro Lys Ile Pro Asn Gly Asn Leu Val

         50   55   60

Asn Gly Thr Cys Ser Pro Asp Ser Gly His Pro Ser Ser His Asn Phe

65   70   75   80

Ser Ser Gly Leu Ser Glu His Ser Glu Pro Ser Leu Ser Thr Glu Asp

         85   90   95

Ser Val Leu Asp Ala Gln Arg Asn Thr Pro Thr Val Leu Arg Pro Arg

```
                100                   105                   110
Asp Gly Ser Val Asp Asp Arg Gln Ser Ser Glu Ala Thr Thr Ser Gln
         115                   120                   125
Asp Glu Ala Pro Arg Glu Glu Leu Ala Val Gln Asp Ser Leu Glu Ser
         130                   135                   140
Asp Leu Leu Ala Asn Glu Ser Met Asp Glu Phe Met Ser Ile Thr Gly
145                   150                   155                   160
Ser Leu Asp Met Ala Leu Pro Glu Lys Asp Asp Val Val Met Glu Gly
                  165                   170                   175
Trp Arg Ser Ser Glu Thr Glu Lys His Gly Gln Ala Asp Ser Glu Asp
                  180                   185                   190
Asn Leu Ser Glu Glu Pro Glu Met Glu Ser Leu Phe Pro Ala Leu Ala
              195                   200                   205
Ser Leu Ala Val Thr Thr Ser Ala Asn Glu Val Ser Pro Val Ser Ser
         210                   215                   220
Ser Gly Val Thr Tyr Ser Pro Glu Leu Leu Asp Leu Tyr Thr Val Asn
225                   230                   235                   240
Leu His Arg Ile Glu Lys Asp Val Gln Arg Cys Asp Arg Asn Tyr Trp
                  245                   250                   255
Tyr Phe Thr Pro Ala Asn Leu Glu Lys Leu Arg Asn Ile Met Cys Ser
                  260                   265                   270
Tyr Ile Trp Gln His Ile Glu Ile Gly Tyr Val Gln Gly Met Cys Asp
                  275                   280                   285
Leu Leu Ala Pro Leu Leu Val Ile Leu Asp Asp Glu Ala Leu Ala Phe
         290                   295                   300
Ser Cys Phe Thr Glu Leu Met Lys Arg Met Asn Gln Asn Phe Pro His
305                   310                   315                   320
Gly Gly Ala Met Asp Thr His Phe Ala Asn Met Arg Ser Leu Ile Gln
                  325                   330                   335
Ile Leu Asp Ser Glu Leu Phe Glu Leu Met His Gln Asn Gly Asp Tyr
                  340                   345                   350
Thr His Phe Tyr Phe Cys Tyr Arg Trp Phe Leu Leu Asp Phe Lys Arg
         355                   360                   365
Glu Leu Val Tyr Asp Asp Val Phe Leu Val Trp Glu Thr Ile Trp Ala
         370                   375                   380
Ala Lys His Val Ser Ser Ala His Tyr Val Leu Phe Ile Ala Leu Ala
```

385   390   395   400

Leu Val Glu Val Tyr Arg Asp Ile Ile Leu Glu Asn Asn Met Asp Phe
                      405   410   415

Thr Asp Ile Ile Lys Phe Phe Asn Glu Met Ala Glu Arg His Asn Thr
                  420   425   430

Lys Gln Val Leu Lys Leu Ala Arg Asp Leu Val Tyr Lys Val Gln Thr
              435   440   445

Leu Ile Glu Asn Lys
          450

<210> 2284

<211> 213

<212> PRT

<213> Homo sapiens

<400> 2284

Met Ser Arg Gln Gly Thr Gly Ser Ser Ala Gln Gly Leu Pro Val Leu
    1   5   10   15

Leu Gly Cys Leu Pro Thr Ala Asp Ser Val Pro Leu Asp Cys Leu Leu
                20   25   30

Gln Lys Phe Leu Leu Leu Met Ala Ser Thr Ser Ala Cys Tyr Lys Leu
              35   40   45

Phe Arg Glu Lys Gln Lys Asp Gly His Gly Glu Ala Ile Met Phe Lys
          50   55   60

Gly Leu Gly Gly Met Ser Ser Lys Arg Ile Thr Ile Asn Lys Ile Leu
65   70   75   80

Ser Asn Glu Ser Leu Val Gln Asp Asn Leu Tyr Phe Gln Arg Cys Leu
                85   90   95

Asp Trp Asn Arg Asp Ile Leu Lys Lys Glu Leu Gly Leu Thr Glu Gln
                100   105   110

Asp Ile Ile Asp Leu Pro Ala Leu Phe Lys Met Asp Glu Asp His Arg
              115   120   125

Ala Arg Ala Phe Phe Pro Asn Met Val Asn Met Ile Val Leu Asp Lys
          130   135   140

Asp Leu Gly Ile Pro Lys Pro Phe Gly Pro Gln Val Glu Glu Glu Cys

145   150   155   160
Cys Leu Glu Met His Val Arg Gly Leu Leu Glu Pro Leu Gly Leu Glu
                        165   170   175
Cys Thr Phe Ile Asp Asp Ile Ser Ala Tyr His Lys Phe Leu Gly Glu
                        180   185   190
Val His Cys Gly Thr Asn Val Arg Arg Lys Pro Phe Thr Phe Lys Trp
            195   200   205
Trp His Met Val Pro
        210

<210> 2285

<211> 191

<212> PRT

<213> Homo sapiens

<400> 2285

Met Ala Glu Asn Lys Gly Leu Gly Tyr Pro Asp Ala Arg Phe Ser Val
    1   5   10   15
Leu Val Ser Ser Gln Leu Ala Ile Pro Met Pro Leu Leu Ser Ser Val
                20   25   30
Gly Gly His Trp Thr Trp Thr Asp Pro Trp Asp Arg Arg Ile Gln Gly
            35   40   45
Val Leu Phe Ser Phe Asp Phe Phe Tyr Leu Phe Ser Ala Arg Lys Asp
        50   55   60
Thr Asp Leu Cys Ser Trp Leu Ser Ser Lys Asn His Leu Ser Phe Val
65   70   75   80
Pro Leu Ser Cys Lys Arg Glu Val His Phe Ile Cys Leu Phe Cys Lys
                85   90   95
Thr Leu Gly Val Cys His Gly His Ala Leu Met Met Ser Thr Cys Val
                100   105   110
Arg Pro Leu Pro Pro Trp Ser Ala Cys Met Val Leu Gln Pro Glu Thr
            115   120   125
Ala Leu Gly Glu Ile Arg Gly Ser Leu Leu Val Gly Gly Glu His Leu
        130   135   140
Pro Leu His Ala Gly Arg His Leu Met Lys Pro Gln Arg Pro Gly Ser

145   150   155   160
Pro Cys Thr Trp Lys Glu Ser Leu Ser Ser Met Trp Gly Glu Pro Arg
                    165   170   175
Trp Pro Cys Gly Ile His Val Phe Pro Pro Pro Ala Ser Pro Ala
                    180   185   190

<210> 2286

<211> 330

<212> PRT

<213> Homo sapiens

<400> 2286

Met Ala Lys Ala Asp Pro Thr Cys Asn Ser Thr Phe Leu His Leu Asp
 1   5   10   15
Thr Gln Gly Cys Tyr Ser Gly Pro Cys Pro Glu Glu Cys Val Trp Ser
                    20   25   30
Ser Trp Ser Ser Trp Thr Arg Cys Ser Cys Arg Val Leu Val Gln Gln
          35   40   45
Arg Tyr Arg His Gln Gly Pro Ala Ser Arg Gly Ala Arg Ala Gly Ala
          50   55   60
Pro Cys Thr Arg Leu Asp Gly His Phe Arg Pro Cys Leu Ile Ser Asn
65   70   75   80
Cys Ser Glu Asp Ser Cys Thr Pro Pro Phe Glu Phe His Ala Cys Gly
                    85   90   95
Ser Pro Cys Ala Gly Leu Cys Ala Thr His Leu Ser His Gln Leu Cys
                    100   105   110
Gln Asp Leu Pro Pro Cys Gln Pro Gly Cys Tyr Cys Pro Lys Gly Leu
          115   120   125
Leu Glu Gln Ala Gly Gly Cys Ile Pro Pro Glu Glu Cys Asn Cys Trp
          130   135   140
His Thr Ser Ala Ala Gly Ala Gly Met Thr Leu Ala Pro Gly Asp Arg
145   150   155   160
Leu Gln Leu Gly Cys Lys Glu Cys Glu Cys Gln Arg Gly Glu Leu His
                    165   170   175
Cys Thr Ser Gln Gly Cys Gln Gly Leu Leu Pro Leu Ser Glu Trp Ser

```
              180                 185                 190
Glu Trp Ser Pro Cys Gly Pro Cys Leu Pro Pro Ser Ala Leu Ala Pro
            195                 200                 205
Ala Ser Arg Thr Ala Leu Glu Glu His Trp Leu Arg Asp Pro Thr Gly
            210                 215                 220
Leu Ser Pro Thr Leu Ala Pro Leu Leu Ala Ser Glu Gln His Arg His
225                 230                 235                 240
Arg Leu Cys Leu Asp Pro Ala Thr Gly Arg Pro Trp Thr Gly Ala Pro
                245                 250                 255
His Leu Cys Thr Ala Pro Leu Ser Gln Gln Arg Leu Cys Pro Asp Pro
                260                 265                 270
Gly Ala Cys Pro Asp Ser Cys Gln Trp Ser Leu Trp Gly Pro Trp Ser
                275                 280                 285
Pro Cys Gln Val Pro Cys Ser Gly Gly Phe Arg Leu Arg Trp Arg Glu
            290                 295                 300
Ala Glu Ala Leu Cys Gly Gly Gly Phe Arg Glu Pro Trp Ala Gln Asp
305                 310                 315                 320
Arg Lys Leu Gln Arg Arg Ala Leu Pro Arg
                325                 330
```

```
<210> 2287
<211> 250
<212> PRT
<213> Homo sapiens
```

```
<400> 2287
Met Leu Val Arg Ser Val Gly Leu Phe Leu Val Gly Leu Leu Leu Gly
1               5                  10                  15
Leu Leu Leu Ala Ala Ala Ala Leu Leu Gly Ser Ala Pro Tyr Tyr Gln
            20                  25                  30
Pro Gly Ser Val Trp Gly Pro Leu Gly Leu Leu Leu Gly Gly Gly Leu
            35                  40                  45
Leu Cys Ala Leu Leu Thr Leu Arg Trp Pro Arg Pro Leu Thr Thr Leu
        50                  55                  60
Ala Thr Ala Val Thr Gly Ala Ala Leu Ile Ala Thr Ala Ala Asp Tyr
```

```
        65                    70                    75                    80
Phe Ala Glu Leu Leu Leu Leu Gly Arg Tyr Val Val Glu Arg Leu Arg
                    85                    90                    95
Ala Ala Pro Val Pro Pro Leu Cys Trp Arg Ser Trp Ala Leu Leu Ala
                    100                   105                   110
Leu Trp Pro Leu Leu Ser Leu Met Gly Val Leu Val Gln Trp Arg Val
                    115                   120                   125
Thr Ala Glu Gly Asp Ser His Thr Glu Val Val Ile Ser Arg Gln Arg
        130                   135                   140
Arg Arg Val Gln Leu Met Arg Ile Arg Gln Gln Glu Asp Arg Lys Glu
145                   150                   155                   160
Lys Arg Arg Lys Lys Arg Pro Pro Arg Ala Pro Leu Arg Gly Pro Arg
                    165                   170                   175
Ala Pro Pro Arg Pro Gly Pro Pro Asp Pro Ala Tyr Arg Arg Arg Pro
                    180                   185                   190
Val Pro Ile Lys Arg Phe Asn Gly Asp Val Leu Ser Pro Ser Tyr Ile
                    195                   200                   205
Gln Ser Phe Arg Asp Arg Gln Thr Gly Ser Ser Leu Ser Ser Phe Met
        210                   215                   220
Ala Ser Pro Thr Asp Ala Asp Tyr Glu Tyr Gly Ser Arg Gly Pro Leu
225                   230                   235                   240
Thr Ala Cys Ser Gly Pro Pro Val Arg Val
                    245                   250
```

```
Met His Gly Leu Arg Glu Gln Phe Ser His Pro Arg Trp Pro Ala Ser
  1                 5                     10                    15
Leu Cys Leu Cys Phe Pro Ala Leu Thr Pro Asp Val Val His Gln Ser
                    20                    25                    30
```

Leu Phe Met Ser Ala Leu Ser Ala His Pro Asp Arg Ser Leu Ser Val
          35   40   45

Cys Trp Glu Gln His Cys Lys Leu Leu Pro Gly Val Ala Gly Ile Ser
      50   55   60

Ala Ser Thr Val Ala Lys Trp Thr Ile Asp Glu Val Phe Gly Phe Val
65   70   75   80

Gln Thr Leu Thr Gly Cys Glu Asp Gln Ala Arg Leu Phe Lys Asp Glu
                  85   90   95

Ala Arg Ile Val Arg Val Thr His Val Ser Gly Lys Thr Leu Val Trp
              100   105   110

Thr Val Ala Gln Leu Gly Asp Leu Val Cys Ser Asp His Leu Gln Glu
          115   120   125

Gly Lys Gly Ile Leu Glu Thr Gly Val His Ser Leu Leu Cys Ser Leu
      130   135   140

Pro Thr His Leu Leu Ala Lys Leu Ser Phe Ala Ser Asp Ser Gln Tyr
145   150   155   160

<210> 2289

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2289

Met Ala Ala Pro Leu Gln Glu Arg Gln Leu Gly Cys Leu Arg Pro Asp
  1   5   10   15

Gly Gln Arg Leu Pro Trp Pro Arg Val Val Thr Val Leu Arg Pro Leu
              20   25   30

Arg Ala Ala Gln Ser Gly Lys Lys Ser Ala Glu Pro Gly Lys Phe Leu
          35   40   45

Ser Val Ser Ser Gly Leu Glu Gly Ala Gly Ile Asp Arg Ala Glu Ala
      50   55   60

Ala Arg Ala Trp Cys Cys Phe Gly Ile Gly Gly Arg Arg Ala Glu Pro
65   70   75   80

Pro Ala Pro Trp Val Trp Phe His Pro Trp Pro Val Pro Gly Thr Arg
              85   90   95

Gln Leu Leu Leu Cys Ala Tyr Trp Cys His His Val Ile
                100   105

<210> 2290

<211> 235

<212> PRT

<213> Homo sapiens

<400> 2290

Met Ala Arg Glu Glu Cys Lys Ala Leu Leu Asp Gly Leu Asn Lys Thr
 1   5   10   15

Thr Ala Cys Tyr His His Leu Val Leu Thr Val Gly Gly Ser Ala Asp
                20   25   30

Ser Gln Asn Leu Arg Gln Glu Leu Gln Lys Thr Arg Gln Lys Ala Gln
        35   40   45

Glu Leu Ala Val Ser Thr Cys Ala Arg Leu Thr Ala Val Leu Arg Asp
    50   55   60

Arg Gly Leu Ala Ala Asp Glu Arg Ala Glu Phe Glu Arg Leu Trp Val
65   70   75   80

Ala Phe Ser Gly Cys Leu Asp Leu Leu Glu Ala Asp Met Arg Arg Ser
                85   90   95

Leu Glu Leu Gly Ala Ala Phe Pro Leu His Ala Pro Arg Arg Pro Leu ·
                100   105   110

Val Arg Thr Gly Val Ala Gly Ala Ser Ser Gly Val Ala Ala Arg Ala
            115   120   125

Leu Ser Thr Arg Ser Leu Arg Leu Glu Ala Glu Gly Asp Phe Asp Val
            130   135   140

Ala Asp Leu Arg Glu Leu Glu Arg Glu Val Leu Gln Val Gly Glu Met
145   150   155   160

Ile Asp Asn Met Glu Met Lys Val Asn Val Pro Arg Trp Thr Val Gln
                165   170   175

Ala Arg Gln Ala Ala Gly Ala Glu Leu Leu Ser Thr Val Ser Ala Gly
                180   185   190

Pro Ser Ser Val Val Ser Leu Gln Glu Arg Gly Gly Gly Cys Asp Pro
                195   200   205

Arg Lys Ala Leu Ala Ala Ile Leu Phe Gly Ala Val Leu Leu Ala Ala
    210   215   220

Val Ala Leu Ala Val Cys Val Ala Lys Leu Ser
225   230   235

.

<210> 2291

<211> 628

<212> PRT

<213> Homo sapiens

<400> 2291

Met Leu Ser Cys Leu Lys Glu Glu Met Pro Pro Gln Glu Leu Thr Arg
 1   5   10   15

Arg Leu Ala Thr Val Ile Thr His Val Asp Glu Ile Met Gln Gln Glu
         20   25   30

Val Arg Pro Leu Met Ala Val Glu Ile Ile Glu Gln Leu His Arg Gln
      35   40   45

Phe Ala Ile Leu Ser Gly Gly Arg Gly Glu Asp Gly Ala Pro Ile Ile
     50   55   60

Thr Phe Pro Glu Phe Ser Gly Phe Lys His Ile Pro Asp Glu Asp Phe
65   70   75   80

Leu Asn Val Met Thr Tyr Leu Thr Ser Ile Pro Ser Val Glu Ala Ala
         85   90   95

Ser Ile Gly Phe Ile Val Val Ile Asp Arg Arg Arg Asp Lys Trp Ser
         100   105   110

Ser Val Lys Ala Ser Leu Thr Arg Ile Ala Val Ala Phe Pro Gly Asn
         115   120   125

Leu Gln Leu Ile Phe Ile Leu Arg Pro Ser Arg Phe Ile Gln Arg Thr
         130   135   140

Phe Thr Asp Ile Gly Ile Lys Tyr Tyr Arg Asn Glu Phe Lys Thr Lys
145   150   155   160

Val Pro Ile Ile Met Val Asn Ser Val Ser Asp Leu His Gly Tyr Ile
          165   170   175

Asp Lys Ser Gln Leu Thr Arg Glu Leu Gly Gly Thr Leu Glu Tyr Arg
         180   185   190

His Gly Gln Trp Val Asn His Arg Thr Ala Ile Glu Asn Phe Ala Leu
      195   200   205

Thr Leu Lys Thr Thr Ala Gln Met Leu Gln Thr Phe Gly Ser Cys Leu
      210   215   220

Ala Thr Ala Glu Leu Pro Arg Ser Met Leu Ser Thr Glu Asp Leu Leu
225   230   235   240

Met Ser His Thr Arg Gln Arg Asp Lys Leu Gln Asp Glu Leu Lys Leu
              245   250   255

Leu Gly Lys Gln Gly Thr Thr Leu Leu Ser Cys Ile Gln Glu Pro Ala
              260   265   270

Thr Lys Cys Pro Asn Ser Lys Leu Asn Leu Asn Gln Leu Glu Asn Val
              275   280   285

Thr Thr Met Glu Arg Leu Leu Val Gln Leu Asp Glu Thr Glu Lys Ala
      290   295   300

Phe Ser His Phe Trp Ser Glu His His Leu Lys Leu Asn Gln Cys Leu
305   310   315   320

Gln Leu Gln His Phe Glu His Asp Phe Cys Lys Ala Lys Leu Ala Leu
              325   330   335

Asp Asn Leu Leu Glu Glu Gln Ala Glu Phe Thr Gly Ile Gly Asp Ser

      340   345   350

Val Met His Val Glu Gln Leu Leu Lys Glu His Lys Lys Leu Glu Glu
      355   360   365

Lys Ser Gln Glu Pro Leu Glu Lys Ala Gln Leu Leu Ala Leu Val Gly
      370   375   380

Asp Gln Leu Ile Gln Ser His His Tyr Ala Ala Asp Ala Ile Arg Pro
385   390   395   400

Arg Cys Val Glu Leu Arg His Leu Cys Asp Asp Phe Ile Asn Gly Asn
              405   410   415

Lys Lys Lys Trp Asp Ile Leu Gly Lys Ser Leu Glu Phe His Arg Gln
              420   425   430

Leu Asp Lys Val Ser Gln Trp Cys Glu Ala Gly Ile Tyr Leu Leu Ala
              435   440   445

Ser Gln Ala Val Asp Lys Cys Gln Ser Arg Glu Gly Val Asp Ile Ala
      450   455   460

Leu Asn Asp Ile Ala Thr Phe Leu Gly Thr Val Lys Glu Tyr Pro Leu

```
465                     470                     475                     480
Leu Ser Pro Lys Glu Phe Tyr Asn Glu Phe Glu Leu Leu Leu Thr Leu
                485                     490                     495
Asp Ala Lys Ala Lys Ala Gln Lys Val Leu Gln Arg Leu Asp Asp Val
                500                     505                     510
Gln Glu Ile Phe His Lys Arg Gln Val Ser Leu Met Lys Leu Ala Ala
                515                     520                     525
Lys Gln Thr Arg Pro Val Gln Pro Val Ala Pro His Pro Glu Ser Ser
            530                     535                     540
Pro Lys Trp Val Ser Ser Lys Thr Ser Gln Pro Ser Thr Ser Val Pro
545                     550                     555                     560
Leu Ala Arg Pro Leu Arg Thr Ser Glu Glu Pro Tyr Thr Glu Thr Glu
                565                     570                     575
Leu Asn Ser Arg Gly Lys Glu Asp Asp Glu Thr Lys Phe Glu Val Lys
                580                     585                     590
Ser Glu Glu Ile Phe Glu Ser His His Glu Arg Gly Asn Pro Glu Leu
            595                     600                     605
Glu Gln Gln Ala Arg Leu Gly Asp Leu Ser Pro Arg Arg Tyr Ser Ser
            610                     615                     620
Gln Tyr Phe Lys
625
```

```
<210> 2292
<211> 160
<212> PRT
<213> Homo sapiens

<400> 2292
Met Ala Phe Leu Met Lys Ser Met Ile Ser Asn Gln Val Lys Asn Leu
 1                   5                      10                      15
Gly Phe Gly Gly Gly Ser Glu Glu Asn Lys Glu Glu Gly Gly Ala Ser
                20                      25                      30
Asp Pro Ala Ala Ala Gln Gly Met Thr Arg Glu Glu Tyr Glu Glu Tyr
            35                      40                      45
Gln Lys Gln Met Ile Glu Glu Lys Met Glu Arg Asp Ala Ala Phe Thr
```

	50					55					60				

Gln Lys Lys Ala Glu Arg Ala Cys Leu Arg Val His Leu Arg Glu Lys
65   70   75   80

Tyr Arg Leu Pro Lys Ser Glu Met Asp Glu Asn Gln Ile Gln Met Ala
                    85   90   95

Gly Asp Asp Val Asp Leu Pro Glu Asp Leu Arg Lys Met Val Asp Glu
                    100   105   110

Asp Gln Glu Glu Glu Glu Asp Lys Asp Ser Ile Leu Gly Gln Ile Gln
                    115   120   125

Asn Leu Gln Asn Met Asp Leu Asp Thr Ile Lys Glu Lys Ala Gln Ala
                    130   135   140

Thr Phe Thr Glu Ile Lys Gln Thr Ala Glu Gln Lys Cys Ser Val Met
145   150   155   160

<210> 2293

<211> 233

<212> PRT

<213> Homo sapiens

<400> 2293

Met Glu Gly Cys Pro Pro Gly Leu Trp Leu Ala Leu Gly Val Arg Val
1   5   10   15

Ser Gly Ala Pro Pro Ala Val Ser Pro Arg Gln Ser His Gly Gly Ala
                    20   25   30

Gly Ala Trp Thr Leu Ser His Pro Gly Glu Pro Leu Ser His Arg Leu
                    35   40   45

Pro Gly Leu Gln Pro Pro His Ala Ser Pro Arg Leu Val Leu Gly Pro
                    50   55   60

Gly Pro Pro Leu Ser Lys Ala Asp Phe Pro Ser Phe His Asp Lys Asp
65   70   75   80

Ala Gln Pro Arg Phe Pro Gly Ala Leu Ala Arg Glu Ile Ala Gly Cys
                    85   90   95

Ile Pro Thr Pro Ala Gly Thr Cys Ala Pro Pro Gly Gln Gly Leu Pro
                    100   105   110

Val Pro Phe Arg Gly Ser Pro Ala Ala Ser Thr Gly Arg Lys Arg Arg

```
                115                  120                  125
Ser Ala Glu Arg Thr Asn Gly Ala Asp Pro Arg Arg Leu Gly Ala Gly
            130                  135                  140
Arg Gly Gly Ala Glu Pro Pro Arg Leu Gln Leu Ala Gly Thr Arg Gly
145                  150                  155                  160
Arg Ala Ala Gly Leu Gly Gly Ala His Ser Ala Thr Asp Arg Pro Arg
                165                  170                  175
Arg Leu Cys Arg Pro Leu Pro Val Ser Arg Gly Gly Ser Arg Gln Glu
            180                  185                  190
Ala Glu Gly Thr Pro Pro Ala Pro Gly Gln Ala Ala Arg Ala Ala Asp
            195                  200                  205
Pro Ser Arg Glu Gly Pro Trp Ala Asp Glu Pro Arg Val Pro Gln Pro
    210                  215                  220
Trp Ser Arg Thr Thr Arg Ser Arg Arg
225                  230
```

<210> 2294

<211> 229

<212> PRT

<213> Homo sapiens

<400> 2294

```
Met Ser Ser Leu Ala Tyr Gly Thr Leu Gly Asp Leu Ser Gln Tyr Lys
1               5                   10                  15
Glu Val Arg Leu Ala Ser Trp Lys Ser Glu Pro Gln Gly Ala Ser Phe
            20                  25                  30
Leu Leu Cys Arg Val Gln Ser Gly Pro Gly Ser Gly Cys Ser Ala Leu
            35                  40                  45
Val Phe Cys Gly Ser Arg Cys Pro Leu Leu Phe Val Ser Gly Asn Met
    50                  55                  60
Ala Ser Gly Val Ala Val Ser Asp Gly Val Ile Lys Val Phe Asn Asp
65                  70                  75                  80
Met Lys Val Arg Lys Ser Ser Thr Pro Glu Glu Val Lys Lys Arg Lys
                85                  90                  95
Lys Ala Val Leu Phe Cys Leu Ser Glu Asp Lys Lys Asn Ile Ile Leu
```

```
                   100                      105                      110
Glu Glu Gly Lys Glu Ile Leu Val Gly Asp Val Gly Gln Thr Val Asp
            115                      120                      125
Asp Pro Tyr Ala Thr Phe Val Lys Met Leu Pro Asp Lys Asp Cys Arg
            130                      135                      140
Tyr Ala Leu Tyr Asp Ala Thr Tyr Glu Thr Lys Glu Ser Lys Lys Glu
145                      150                      155                      160
Asp Leu Val Phe Ile Phe Trp Ala Pro Glu Ser Ala Pro Leu Lys Ser
                   165                      170                      175
Lys Met Ile Tyr Ala Ser Ser Lys Asp Ala Ile Lys Lys Lys Leu Thr
                   180                      185                      190
Gly Ile Lys His Glu Leu Gln Ala Asn Cys Tyr Glu Glu Val Lys Asp
            195                      200                      205
Arg Cys Thr Leu Ala Glu Lys Leu Gly Gly Ser Ala Val Ile Ser Leu
            210                      215                      220
Glu Gly Lys Pro Leu
225
```

<210> 2295

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2295

```
Met Val Gly Ala Gly Asp Asp Gly Ala Pro Gly Val Gly Met Arg Lys
1               5                      10                      15
Glu Pro Arg Asn Gly Tyr Ile Leu Glu Thr Glu Leu Thr Gly Leu Gly
            20                      25                      30
Ser Glu Leu Asn Leu Trp Glu Glu Gly Glu Ile Glu Ala Gln Leu Ala
            35                      40                      45
Phe Arg Gly Asp Val Ala Asn Lys Val Pro Gly Gly Ile Val Tyr Pro
            50                      55                      60
His Glu Gly Cys Arg Gly Lys Ser Arg Val Ser Arg Arg Val Glu Met
65                      70                      75                      80
Ser Gly Asp Leu Leu Gly His Ile Met Ile Glu Lys Val Gly Leu Gly
```

```
                     85                    90                    95
Arg Gly Trp Trp Leu Met Ser Val Ile Pro Ala Leu Trp Glu Ala Glu
                100                   105                   110
Val Asp His Leu Arg Ser Gly Val Gly Asp Gln Pro Gly Gln His Gly
            115                   120                   125
Glu Thr Pro Ser Leu Leu Lys Ile Gln Asn
        130                   135
```

<210> 2296

<211> 225

<212> PRT

<213> Homo sapiens

<400> 2296

```
Met Thr Cys Asn Ser Arg Trp Trp Ile Cys Ser Lys Ala Ser Ile Pro
  1               5                    10                   15
Thr Pro Ser Lys Gly Gln Val Ser Ser Pro Ala Ser Glu Ile Arg Leu
                20                   25                   30
Trp Asp Pro Cys Leu Gly Gly Gly Leu His Ala Pro Ala Thr Ser Ala
            35                   40                   45
Gly Ala Asp Ser Arg Thr Pro Trp His Phe Leu Arg Thr Arg Ala Trp
        50                   55                   60
Asp Gly Pro Ser Ala Pro Trp Tyr Ala Leu Pro Ser Phe Gln Leu Pro
 65                   70                   75                   80
Cys Pro Leu Thr Leu Gly Ser Pro Pro Pro His Gln Cys Arg Val Leu
                85                   90                   95
Val Pro Thr Ser Ser Phe Leu Gln Pro Gln Thr Ala Ser Gly Ser Ser
                100                  105                  110
Cys Pro Ser Pro Ser Gly Thr Pro Ala Pro Gly Cys Pro Leu Ser Leu
            115                  120                  125
Pro Pro Met Pro Arg Ala Pro Pro Ala Ser Ala Gly Gln Ala Phe Arg
        130                  135                  140
Thr Leu Pro Pro Thr Gln Phe Tyr Asn Pro Ala Pro Ser Pro Gly Asn
145                  150                  155                  160
Pro Thr His Gln Pro Arg Pro Ala Pro Pro Pro Phe Pro Gly Gly Ser
```

```
                    165                  170                  175
Pro Gly Met Leu Arg Val Gly Gly Gly Ala Arg Leu Asp Ala Ser Cys
                180                  185                  190
Gly Ser Pro Leu Gln Thr Trp Leu Ala Pro Ala Ala Thr Glu Thr Thr
                195                  200                  205
Met Ala Lys Asn Leu Ile Gly Ser Gln Gly Leu Thr Arg Gly Gly Lys
        210                  215                  220
Gln
225
```

<210> 2297

<211> 248

<212> PRT

<213> Homo sapiens

<400> 2297

```
Met Trp Pro Gly Asn Ala Trp Arg Ala Ala Leu Phe Trp Val Pro Arg
 1               5                  10                  15
Gly Arg Arg Ala Gln Ser Ala Leu Ala Gln Leu Arg Gly Ile Leu Glu
                20                  25                  30
Gly Glu Leu Glu Gly Ile Arg Gly Ala Gly Thr Trp Lys Ser Glu Arg
            35                  40                  45
Val Ile Thr Ser Arg Gln Gly Pro His Ile Arg Val Asp Gly Val Ser
        50                  55                  60
Gly Gly Pro Gly Thr Val Ile Phe Pro Gly Leu Pro Ser Pro His Leu
65                  70                  75                  80
Ser Cys Cys Ile His Leu Leu Ser Phe Thr Ser Gly Ile Leu Asn Phe
                85                  90                  95
Cys Ala Asn Asn Tyr Leu Gly Leu Ser Ser His Pro Glu Val Ile Gln
                100                  105                  110
Ala Gly Leu Gln Ala Leu Glu Glu Phe Gly Ala Gly Leu Ser Ser Val
            115                  120                  125
Arg Phe Ile Cys Gly Thr Gln Ser Ile His Lys Asn Leu Glu Ala Lys
        130                  135                  140
Ile Ala Arg Phe His Gln Arg Glu Asp Ala Ile Leu Tyr Pro Ser Cys
```

```
            145                   150                   155                   160
Tyr Asp Ala Asn Ala Gly Leu Phe Glu Ala Leu Leu Thr Pro Glu Asp
                        165                   170                   175
Ala Val Leu Ser Asp Glu Leu Asn His Ala Ser Ile Ile Asp Gly Ile
                        180                   185                   190
Arg Leu Cys Lys Ala His Lys Tyr Arg Tyr Arg His Leu Asp Met Ala
                    195                   200                   205
Asp Leu Glu Ala Lys Leu Gln Glu Ala Gln Lys His Arg Leu Arg Leu
                210                   215                   220
Val Ala Thr Asp Gly Ala Phe Phe His Gly Trp Arg His Arg Thr Pro
225                   230                   235                   240
Ala Gly Asp Leu Leu Pro Arg Leu
                    245
```

<210> 2298

<211> 221

<212> PRT

<213> Homo sapiens

<400> 2298

```
Met Gly Ser Ala Leu Arg Gly Leu Gly Ser Ala Thr Phe Ser Ser Ser
  1                   5                    10                   15
Pro Val Thr His Ser Ser Arg Val Gly Gly Val Leu Pro Ala Pro Pro
                    20                   25                   30
Arg Gly Leu Gly Ile Ser Pro Ser Pro Cys Pro Gly Asp Ser Leu Ala
                35                   40                   45
Leu Ser Arg Thr Ala Ser Leu Leu Gly Leu Ser Leu Gly Thr Gln Trp
            50                   55                   60
Thr Pro Lys Ser Arg Pro Ala Pro Thr Thr Gly Pro Ala Ser Leu Cys
65                   70                   75                   80
Leu Pro Gln Leu Ala Trp Val Leu Ala Trp Val Arg Ile Trp Lys Leu
                    85                   90                   95
Leu Ala Gly Leu Asn Gln Ala Leu Leu Ser Ser Ser Arg Ala Leu Ser
                    100                  105                  110
His Arg Arg Gln Arg Pro Ala Ala Ser Arg Pro His Cys Gln Gln Cys
```

```
            115                  120                  125
Pro Trp Pro Ser Glu Pro Arg Arg Ser Ser Thr Pro Ser Arg Pro Ser
        130              .    135                  140
Ser Thr Pro Pro Arg Pro Ala Gly Gln Gly Gln Ala Leu Pro Gln Ile
145                  150                  155                  160
Leu Ile Gly Arg Glu Ala Leu Leu Thr Phe Pro Pro Gly Gly Arg Gly
                165                  170                  175
Trp Ser Glu Ser Pro His Ser Arg Glu Thr His Arg Ser Pro Leu Asn
            180                  185                  190
Phe Ala Asp Ala His Leu Glu Asn Gly Leu Ser Cys Thr Arg Pro Ser
            195                  200                  205
His Thr Thr Ala Leu Gln Ala Asp Gly Met Phe Gln Leu
        210                  215                  220
```

<210> 2299

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2299

```
Met Leu Pro Arg Ser Gln Ser Leu Cys Tyr Ser Leu Pro Gln Ala Ile
 1               5                  10                  15
Leu Ser Pro Trp Pro Pro Lys Val Leu Ser Leu Gln Val Ser Thr Thr
                20                  25                  30
Val Ala Ser His Ala Leu Val Leu Arg Ser Arg Ile Phe Leu Phe Gly
        35                  40          .        45
Ala Phe Thr Ile Ser Phe Arg Leu Gly Asp Arg Glu Pro Thr Lys Gln
        50                  55                  60
Pro Phe Arg Gly Trp Lys Lys Ser Leu Glu Lys Glu Leu Cys Gly Phe
65                  70                  75                  80
Arg Asn Phe Ser Arg Lys Ser Ser Arg Ala Glu Lys Glu Asn Leu Pro
                85                  90                  95
Asn Gly Arg Val Tyr
                100
```

<210> 2300

<211> 277

<212> PRT

<213> Homo sapiens

<400> 2300

```
Met Glu Glu Asn Gln Arg Val Ala Arg Arg Arg Phe Pro Phe Val
  1               5                  10                  15
Arg Glu Arg Ser Asp Ser Thr Gly Ser Ser Ser Val Tyr Phe Thr Ala
                 20                  25                  30
Ser Ser Gly Ala Thr Phe Thr Asp Ala Glu Ser Glu Gly Gly Tyr Thr
             35                  40                  45
Thr Ala Asn Ala Glu Ser Asp Asn Glu Arg Asp Ser Asp Lys Glu Ser
         50                  55                  60
Glu Asp Gly Glu Asp Glu Val Ser Cys Glu Thr Val Lys Met Gly Arg
 65                  70                  75                  80
Lys Asp Ser Leu Asp Leu Glu Glu Glu Ala Ala Ser Gly Ala Ser Ser
                 85                  90                  95
Ala Leu Glu Ala Gly Gly Ser Ser Gly Leu Glu Asp Val Leu Pro Leu
             100                 105                 110
Leu Gln Gln Ala Asp Glu Leu His Arg Gly Asp Glu Gln Gly Lys Arg
             115                 120                 125
Glu Gly Phe Gln Leu Leu Leu Asn Asn Lys Leu Val Tyr Gly Ser Arg
             130                 135                 140
Gln Asp Phe Leu Trp Arg Leu Ala Arg Ala Tyr Ser Asp Met Cys Glu
145                 150                 155                 160
Leu Thr Glu Glu Val Ser Glu Lys Lys Ser Tyr Ala Leu Asp Gly Lys
                 165                 170                 175
Glu Glu Ala Glu Ala Ala Leu Glu Lys Gly Asp Glu Ser Ala Asp Cys
             180                 185                 190
His Leu Trp Tyr Ala Val Leu Cys Gly Gln Leu Ala Glu His Glu Ser
             195                 200                 205
Ile Gln Arg Arg Ile Gln Ser Gly Phe Ser Phe Lys Glu His Val Asp
             210                 215                 220
Lys Ala Ile Ala Leu Gln Pro Glu Asn Pro Met Ala His Phe Leu Leu
```

```
                225                    230                    235                    240
Gly Arg Trp Cys Tyr Gln Val Ser His Leu Ser Trp Leu Glu Lys Lys
                    245                    250                    255
Leu Leu Gln Pro Cys Leu Lys Ala Leu Ser Val Pro Leu Trp Lys Met
                    260                    265                    270
Pro Ser Arg Ala Ser
                275
```

<210> 2301

<211> 330

<212> PRT

<213> Homo sapiens

<400> 2301

```
Met Arg Arg Asp Pro Ala Pro Gly Phe Ser Met Leu Leu Phe Gly Val
 1               5                   10                  15
Leu Leu Ala Cys Tyr Ser Pro Ser Leu Lys Ser Val Gln Asp Gln Ala
                20                   25                  30
Tyr Lys Ala Pro Val Val Val Glu Gly Lys Val Gln Gly Leu Val Pro
            35                   40                  45
Ala Gly Gly Ser Ser Ser Asn Ser Thr Arg Glu Pro Pro Ala Ser Gly
        50                   55                  60
Arg Val Ala Leu Val Lys Val Leu Asp Lys Trp Pro Leu Arg Ser Gly
65                   70                  75                  80
Gly Leu Gln Arg Glu Gln Val Ile Ser Val Gly Ser Cys Val Pro Leu
                85                   90                  95
Glu Arg Asn Gln Arg Tyr Ile Phe Phe Leu Glu Pro Thr Glu Gln Pro
                100                  105                 110
Leu Val Phe Lys Thr Ala Phe Ala Pro Leu Asp Thr Asn Gly Lys Asn
            115                  120                 125
Leu Lys Lys Glu Val Gly Lys Ile Leu Cys Thr Asp Cys Ala Thr Arg
        130                  135                 140
Pro Lys Leu Lys Lys Met Lys Ser Gln Thr Gly Gln Val Gly Glu Lys
145                  150                  155                 160
Gln Ser Leu Lys Cys Glu Ala Ala Ala Gly Asn Pro Gln Pro Ser Tyr
```

```
                165                 170                  175
Arg Trp Phe Lys Asp Gly Lys Glu Leu Asn Arg Ser Arg Asp Ile Arg
            180                 185                 190
Ile Lys Tyr Gly Asn Gly Arg Lys Asn Ser Arg Leu Gln Phe Asn Lys
            195                 200                 205
Val Lys Val Glu Asp Ala Gly Glu Tyr Val Cys Glu Ala Glu Asn Ile
        210                 215                 220
Leu Gly Lys Asp Thr Val Arg Gly Arg Leu Tyr Val Asn Ser Val Ser
225                 230                 235                 240
Thr Thr Leu Ser Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr
                245                 250                 255
Ala Lys Ser Tyr Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly
            260                 265                 270
Ile Asn Gln Leu Ser Cys Lys Cys Pro Asn Gly Phe Phe Gly Gln Arg
            275                 280                 285
Cys Leu Glu Lys Leu Pro Leu Arg Leu Tyr Met Pro Asp Pro Lys Gln
        290                 295                 300
Ser Val Leu Trp Asp Thr Pro Gly Thr Gly Val Ser Ser Ser Gln Trp
305                 310                 315                 320
Ser Thr Ser Pro Ser Thr Leu Asp Leu Asn
                325                 330
```

<210> 2302

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2302

```
Met Lys Ile Leu Leu Gly Gly Val Thr Asn Val Phe Met His Ile Gln
 1               5                   10                  15
Asp Thr Leu Val Ser Thr Gly Cys Thr Ala Val Ile His Pro His Leu
            20                  25                  30
Leu Lys Met His Pro Asp Leu Ser Pro His Leu His Thr Glu Glu Cys
            35                  40                  45
Asn Val Leu Ile Asn Leu Leu Lys Glu Cys His Lys Asn His Asn Ile
```

```
        50                  55                  60
Leu Lys Phe Phe Gly Tyr Cys Asn Asp Val Asp Arg Glu Leu Arg Lys
65                  70                  75                  80
Cys Leu Lys Asn Glu Tyr Val Glu Asn Arg Thr Lys Ser Arg Glu His
                    85                  90                  95
Gly Ile Ala Met Arg Lys Lys Leu Phe Asn Pro Pro Glu Glu Ser Glu
                    100                 105                 110
Lys
```

<210> 2303

<211> 215

<212> PRT

<213> Homo sapiens

<400> 2303

```
Met Gln Pro Pro Ala Leu Ser Ser Asn Ser Arg Val Arg Ile Thr Gln
 1                   5                  10                  15
Pro Cys Leu Asp Asp Arg Cys Ser Glu Leu Ser Gly Ala Leu Pro Arg
                    20                  25                  30
Ala Gln Arg Ser Arg Ala Val Pro Ile Pro Ala Arg Pro Arg Lys Arg
            35                  40                  45
Pro Ser Cys Arg Glu Ser Gly Lys Pro Arg Ala Gly Trp Val Ser Ala
        50                  55                  60
Gln Ser Pro Thr Thr Gly Trp Gly Gly Gly His Pro Gln Ser Thr Val
65                  70                  75                  80
Ser Gly Gly Arg Asn Arg Ala Leu Leu Ala Ser Val Arg Phe Arg Arg
                    85                  90                  95
Arg Gln Arg Gly Tyr Leu Ala Trp Cys Gly Gly Arg Ala Gly Ala Val
                    100                 105                 110
Pro Ala Glu Gly Pro Ala Val Cys Ala Gly His Ala Arg Gly His Ala
            115                 120                 125
Gly Arg Pro Ala Ala Ala Ala Pro Arg Lys Ala Ala Pro Ala Gly Ser
        130                 135                 140
Met Arg His Pro Ala Pro Gly Pro Asp Cys Pro Arg His Gln His Gln
```

```
145                     150                     155                     160
Gly Gln Lys Gln Tyr Asn Ile His Val Gly Thr Ala Gly Ser Lys Asp
                        165                     170                     175
Lys Arg Pro Lys Ile Ser Gly Leu Arg Met Glu His Ser His Glu Pro
                        180                     185                     190
Ala His Asp Lys Thr His Pro Cys Phe Ser Gly Ser Arg Leu Tyr Val
                        195                     200                     205
Lys Ala Ser Cys Arg Gly Cys
                        210                     215
```

<210> 2304

<211> 107

<212> PRT

<213> Homo sapiens

<400> 2304

```
Met Glu Leu Leu Asp Pro Asp Glu Leu Arg Gly Glu Ala Gly Tyr Tyr
    1                   5                       10                      15
Leu Thr Thr Trp Phe Gly Ala Leu His His Ile Ala His Tyr Gln Pro
                        20                      25                      30
Glu Thr Asp Arg Ala Pro Arg Gly Leu Ser Ser Glu Ala Arg Ala Ser
                35                      40                      45
Leu His Gln Trp His Arg Arg Thr Leu His Arg Lys Asp His Pro
            50                      55                      60
Arg Ala Gln Val Thr Ala His Leu Ala Ala Ser Arg Arg Glu Gly Glu
65                      70                      75                      80
Thr Trp Cys Pro Ser Asp Pro Ala Pro Thr Ser Pro His Arg Pro Thr
                        85                      90                      95
Cys Pro Leu Arg Ser His Gly Gln Lys Arg Leu
                        100                     105
```


<210> 2305

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2305

```
Met Ile Leu Lys Lys Gly Pro His Phe Pro Gly Glu Ala Asp Pro Arg
 1               5                   10                  15
Cys Val Val Gly Ser Pro Gly Ala Gly Asp Arg Arg Cys Ala Cys Ala
                20                  25                  30
Ala Ala Gly Thr Gly Ala Ser Arg Leu Gly Val Ala Arg Gly Val Pro
             35                  40                  45
Gly Gln Pro Gly Pro His Pro Gly Pro Leu Val Pro Cys Pro Ser Ser
          50                  55                  60
Leu Pro Ile Leu Pro His Leu Pro Ser Thr Thr Val Ala Ala Ala Gly
65                  70                  75                  80
Ser Ala Ser Ala Thr Gly Ala Ala Ala Arg Arg Cys Arg Cys Gly Ala
                85                  90                  95
Cys Ala Leu Trp Thr Pro Cys Gly Ser Ala Arg Ser Ala Pro Trp Cys
                100                 105                 110
Pro Ser Arg Arg Arg Ser Ser Thr Thr Ser Ser Ser Lys Cys Ser
                115                 120                 125
```


<210> 2306

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2306

```
Met Val Ala Ala Tyr Ala Gly His Ile Asp Cys Val Arg Glu Leu Val

 1               5                   10                  15
Leu Gln Gly Ala Asp Ile Asn Leu Gln Arg Glu Asp Gly Gly Thr Ala
                20                  25                  30
Leu Leu Ala Ala Ser Gln Tyr Gly His Met Gln Val Val Glu Thr Leu
             35                  40                  45
Leu Lys His Gly Ala Asn Ile His Asp Gln Leu Tyr Asp Gly Ala Thr
          50                  55                  60
```

Ala Leu Phe Leu Ala Ala Gln Gly Gly Tyr Leu Asp Val Ile Arg Leu
65   70   75   80

Leu Leu Ala Ser Gly Ala Lys Val Asn Gln Pro Arg Thr Gly Gln Arg
                85   90   95

Pro Cys Gly Ser Arg Pro Arg Trp Ala Thr Ala Arg Trp Cys Gly Cys
                100   105   110

Cys Cys Cys Ala Glu Pro Thr Ala Thr Leu Arg Gly Thr Met Ala Gln
                115   120   125

Gln His Tyr
    130

<210> 2307

<211> 190

<212> PRT

<213> Homo sapiens

<400> 2307

Met Leu Phe Thr His Ala Ser Leu Thr Ile Met Thr Lys Ile Phe Phe
1   5   10   15

Leu Ala Cys Ile Leu Ser Gln Ser Val Gln Tyr Ile Gly Leu Lys Val
                20   25   30

Leu Trp Lys Ser Leu Cys Arg Ser Ile Ile Cys Val Lys Lys Lys Lys
                35   40   45

Lys Pro Lys Lys Gln Lys Lys Lys Thr Phe Asp Leu Ser Arg His Ile
    50   55   60

Glu Ala Gln Leu Thr Ala Ser Phe Ala Gly Ile Trp Phe Tyr Phe Leu
65   70   75   80

Phe Arg Phe Ile Ile Asp Ser Thr Ser Ile Ser Leu Asp Cys Phe Phe
                85   90   95

Val Ile Val Gly Gln Val Ser Ile Ser Ile Asn Ser Ile Leu Ser Leu
                100   105   110

Asn Ser Ser Phe His Thr Ser Phe Asp Thr Leu Val Ala Leu Ser Phe

                115   120   125

Ile Leu Leu Val Phe Val Leu Arg Gln Ser Leu Ala Leu Pro Leu Arg

```
          130                   135                   140
Leu Glu Cys Ser Gly Thr Ile Thr Ala His Cys Ser Leu Tyr Leu Leu
145                   150                   155                   160
Gly Pro Ser Ser Ala Leu Asp Ser Gly Met Pro Asn Ser Val Ala Gly
                      165                   170                   175
Thr Thr Ser Leu Thr Ile Leu Pro Gly Leu Val Leu Asn Pro

          180                   185                   190
```

<210> 2308

<211> 180

<212> PRT

<213> Homo sapiens

<400> 2308

```
Met Leu Glu Asp Pro Val Ala Leu Lys Ala Cys Leu Leu His Ile Cys
  1                   5                   10                  15
Leu Gln Ser Gln Thr Ser Gly Pro Gly Ala Val Ser Ser Leu Val Ser
                  20                  25                  30
Gly Ile Pro Val Ala Ser Met Phe Cys Val Cys Val Trp Cys Ala Pro
              35                  40                  45
Ser Ser His Cys Leu Asn Ser Leu Lys Ser His Lys Gly Gly Leu Leu
          50                  55                  60
Leu Glu Ile Trp Pro Pro Leu Ala Pro Pro Arg Ser Pro His Val Ser
65                  70                  75                  80
Pro Thr Gly Ser Pro Gln Thr Thr Ser Glu Gly Leu Thr Cys Cys His
                  85                  90                  95
Ser Leu Leu Leu Pro Gln Ser Arg Val Met Arg Met Asp Gly Val Gln
                  100                 105                 110
Gly Phe Arg Trp Gly Leu Arg Arg Cys Pro Cys Trp Pro Cys Pro Ser
              115                 120                 125
Trp Leu Ser Arg Pro Gly Phe Thr Val Gln Leu His Leu Tyr Ala Gly
          130                 135                 140
Arg Gly Ala Asp Ser Ser Gly Thr Pro Trp Phe Trp Ile Pro Phe Leu
145                 150                 155                 160
```

Gly Ser Leu Trp Arg Gln Pro Gly Phe Ser Gly Ala Ala Ser Gln Gln
     165   170   175

Leu Ser Gln Gly
   180

<210> 2309

<211> 1015

<212> PRT

<213> Homo sapiens

<400> 2309

Met Ala Gln Gly Glu Ala Gln Trp Phe Gln Glu Ala Lys Asn Leu Asn
 1   5   10   15

Glu Gln Leu Arg Ala Ala Tyr Thr Ser Ala Ser Phe Arg His Met Ser
     20   25   30

Leu Leu Asp Ile Ser Ser Asp Leu Ala Thr Asp His Leu Leu Gly Cys
    35   40   45

Asp Leu Ser Ile Ala Ser Lys His Ile Ser Lys Pro Val Gln Glu Pro
   50   55   60

Leu Val Leu Pro Glu Val Phe Gly Asn Leu Asn Ser Val Met Cys Val
 65   70   75   80

Glu Gly Glu Ala Gly Ser Gly Lys Thr Val Leu Leu Lys Lys Ile Ala
     85   90   95

Phe Leu Trp Ala Ser Gly Cys Cys Pro Leu Leu Asn Arg Phe Gln Leu
     100   105   110

Val Phe Tyr Leu Ser Leu Ser Ser Thr Arg Pro Asp Glu Gly Leu Ala
     115   120   125

Ser Ile Ile Cys Asp Gln Leu Leu Glu Lys Glu Gly Ser Val Thr Glu
    130   135   140

Met Cys Met Arg Asn Ile Ile Gln Gln Leu Lys Asn Gln Val Leu Phe
145   150   155   160

Leu Leu Asp Asp Tyr Lys Glu Ile Cys Ser Ile Pro Gln Val Ile Gly
     165   170   175

Lys Leu Ile Gln Lys Asn His Leu Ser Arg Thr Cys Leu Leu Ile Ala
     180   185   190

Val Arg Thr Asn Arg Ala Arg Asp Ile Arg Arg Tyr Leu Glu Thr Ile
      195   200   205

Leu Glu Ile Lys Ala Phe Pro Phe Tyr Asn Thr Val Cys Ile Leu Arg
      210   215   220

Lys Leu Phe Ser His Asn Met Thr Arg Leu Arg Lys Phe Met Val Tyr
225   230   235   240

Phe Gly Lys Asn Gln Ser Leu Gln Lys Ile Gln Lys Thr Pro Leu Phe
           245   250   255

Val Ala Ala Ile Cys Ala His Trp Phe Gln Tyr Pro Phe Asp Pro Ser
          260   265   270

Phe Asp Asp Val Ala Val Phe Lys Ser Tyr Met Glu Arg Leu Ser Leu
      275   280   285

Arg Asn Lys Ala Thr Ala Glu Ile Leu Lys Ala Thr Val Ser Ser Cys
      290   295   300

Gly Glu Leu Ala Leu Lys Gly Phe Phe Ser Cys Cys Phe Glu Phe Asn
305   310   315   320

Asp Asp Asp Leu Ala Glu Ala Gly Val Asp Glu Asp Glu Asp Leu Thr
          325   330   335

Met Cys Leu Met Ser Lys Phe Thr Ala Gln Arg Leu Arg Pro Phe Tyr
          340   345   350

Arg Phe Leu Ser Pro Ala Phe Gln Glu Phe Leu Ala Gly Met Arg Leu
          355   360   365

Ile Glu Leu Leu Asp Ser Asp Arg Gln Glu His Gln Asp Leu Gly Leu
      370   375   380

Tyr His Leu Lys Gln Ile Asn Ser Pro Ile Met Thr Val Ser Ala Tyr
385   390   395   400

Asn Asn Phe Leu Asn Tyr Val Ser Ser Leu Pro Ser Thr Lys Ala Gly
          405   410   415

Pro Lys Ile Val Ser His Leu Leu His Leu Val Asp Asn Lys Glu Ser
          420   425   430

Leu Glu Asn Ile Ser Glu Asn Asp Asp Tyr Leu Lys His Gln Pro Glu
          435   440   445

Ile Ser Leu Gln Met Gln Leu Leu Arg Gly Leu Trp Gln Ile Cys Pro
      450   455   460

Gln Ala Tyr Phe Ser Met Val Ser Glu His Leu Leu Val Leu Ala Leu
465   470   475   480

Lys Thr Ala Tyr Gln Ser Asn Thr Val Ala Ala Cys Ser Pro Phe Val
                485   490   495

Leu Gln Phe Leu Gln Gly Arg Thr Leu Thr Leu Gly Ala Leu Asn Leu
            500   505   510

Gln Tyr Phe Phe Asp His Pro Glu Ser Leu Ser Leu Leu Arg Ser Ile
        515   520   525

His Phe Pro Ile Arg Gly Asn Lys Thr Ser Pro Arg Ala His Phe Ser
    530   535   540

Val Leu Glu Thr Cys Phe Asp Lys Ser Gln Val Pro Thr Ile Asp Gln
545   550   555   560

Asp Tyr Ala Ser Ala Phe Glu Pro Met Asn Glu Trp Glu Arg Asn Leu
                565   570   575

Ala Glu Lys Glu Asp Asn Val Lys Ser Tyr Met Asp Met Gln Arg Arg
                580   585   590

Ala Ser Pro Asp Leu Ser Thr Gly Tyr Trp Lys Leu Ser Pro Lys Gln
            595   600   605

Tyr Lys Ile Pro Cys Leu Glu Val Asp Val Asn Asp Ile Asp Val Val
        610   615   620

Gly Gln Asp Met Leu Glu Ile Leu Met Thr Val Phe Ser Ala Ser Gln
625   630   635   640

Arg Ile Glu Leu His Leu Asn His Ser Arg Gly Phe Ile Glu Ser Ile
                645   650   655

Arg Pro Ala Leu Glu Leu Ser Lys Ala Ser Val Thr Lys Cys Ser Ile
            660   665   670

Ser Lys Leu Glu Leu Ser Ala Ala Glu Gln Glu Leu Leu Leu Thr Leu
            675   680   685

Pro Ser Leu Glu Ser Leu Glu Val Ser Gly Thr Ile Gln Ser Gln Asp
    690   695   700

Gln Ile Phe Pro Asn Leu Asp Lys Phe Leu Cys Leu Lys Glu Leu Ser
705   710   715   720

Val Asp Leu Glu Gly Asn Ile Asn Val Phe Ser Val Ile Pro Glu Glu
                725   730   735

Phe Pro Asn Phe His His Met Glu Lys Leu Leu Ile Gln Ile Ser Ala
            740   745   750

Glu Tyr Asp Pro Ser Lys Leu Val Lys Leu Ile Gln Asn Ser Pro Asn
        755   760   765

Leu His Val Phe His Leu Lys Cys Asn Phe Phe Ser Asp Phe Gly Ser
    770   775   780

Leu Met Thr Met Leu Val Ser Cys Lys Lys Leu Thr Glu Ile Lys Phe
785   790   795   800

Ser Asp Ser Phe Phe Gln Ala Val Pro Phe Val Ala Ser Leu Pro Asn
         805   810   815

Phe Ile Ser Leu Lys Ile Leu Asn Leu Glu Gly Gln Gln Phe Pro Asp
        820   825   830

Glu Glu Thr Ser Glu Lys Phe Ala Tyr Ile Leu Gly Ser Leu Ser Asn
        835   840   845

Leu Glu Glu Leu Ile Leu Pro Thr Gly Asp Gly Ile Tyr Arg Val Ala
    850   855   860

Lys Leu Ile Ile Gln Gln Cys Gln Gln Leu His Cys Leu Arg Val Leu
865   870   875   880

Ser Phe Phe Lys Thr Leu Asn Asp Asp Ser Val Val Glu Ile Ala Lys
        885   890   895

Val Ala Ile Ser Gly Gly Phe Gln Lys Leu Glu Asn Leu Lys Leu Ser
        900   905   910

Ile Asn His Lys Ile Thr Glu Glu Gly Tyr Arg Asn Phe Phe Gln Ala
        915   920   925

Leu Asp Asn Met Pro Asn Leu Gln Glu Leu Asp Ile Ser Arg His Phe
    930   935   940

Thr Glu Cys Ile Lys Ala Gln Ala Thr Thr Val Lys Ser Leu Ser Gln
945   950   955   960

Cys Val Leu Arg Leu Pro Arg Leu Ile Arg Leu Asn Met Leu Ser Trp
        965   970   975

Leu Leu Asp Ala Asp Asp Ile Ala Leu Leu Asn Val Met Lys Glu Arg
        980   985   990

His Pro Gln Ser Lys Tyr Leu Thr Ile Leu Gln Lys Trp Ile Leu Pro
        995   1000   1005

Phe Ser Pro Ile Ile Gln Lys
    1010   1015

<210> 2310

<211> 259

<212> PRT

<213> Homo sapiens

<400> 2310

Met Gln Phe Leu His Lys Leu Ile Leu Asn His Asn Pro Leu Thr Thr
1   5   10   15

Val Glu Asp Pro Tyr Leu Phe Lys Leu Pro Ala Leu Lys Tyr Leu Asp
                20   25   30

Met Gly Thr Thr Leu Val Pro Leu Thr Thr Leu Lys Asn Ile Leu Met
            35   40   45

Met Thr Val Glu Leu Glu Lys Leu Ile Leu Pro Ser His Met Ala Cys
        50   55   60

Cys Leu Cys Gln Phe Lys Asn Ser Ile Glu Ala Val Cys Lys Thr Val
65   70   75   80

Lys Leu His Cys Asn Ser Ala Cys Leu Thr Asn Thr Thr His Cys Pro
                85   90   95

Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe Met Lys Val Leu
                100   105   110

Gln Ala Arg Lys Asn Tyr Thr Ser Thr Glu Leu Ile Val Glu Pro Glu
            115   120   125

Glu Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly Phe Gly Ser Glu
        130   135   140

Gln Leu Asp Thr Asn Asp Glu Ser Asp Phe Ile Ser Thr Leu Ser Tyr
145   150   155   160

Ile Leu Pro Tyr Phe Ser Ala Val Asn Leu Asp Val Lys Ser Leu Leu
                165   170   175

Leu Pro Leu Ile Lys Leu Pro Thr Thr Gly Asn Ser Leu Ala Lys Ile
                180   185   190

Gln Thr Val Gly Gln Asn Arg Gln Arg Val Lys Arg Val Leu Met Gly
            195   200   205

Pro Arg Ser Ile Gln Lys Arg His Phe Lys Glu Val Gly Arg Gln Ser
        210   215   220

Ile Arg Arg Glu Gln Gly Ala Gln Ala Ser Val Glu Asn Ala Ala Glu
225   230   235   240

Glu Lys Arg Leu Gly Ser Pro Ala Pro Thr Glu Glu Glu Glu Ser Glu
                245   250   255

Ala Leu Pro

<210> 2311
<211> 110
<212> PRT
<213> Homo sapiens

<400> 2311

```
Met Ala Thr Ser Asp Pro Pro Gln Ser Leu Asp Thr Ser Leu Phe Phe
1               5                   10                  15
Gly Thr Val Ala Met Lys Asn Ser Ser Pro Glu Pro Gln Ala Leu Thr
                20                  25                  30
Pro Ser Ser Lys Leu Thr Val Asp Thr Asp Ala Leu Thr Pro Ser Ser
                35                  40                  45
Thr Leu Cys Glu Asn Ser Val Ser Glu Leu Leu Thr Pro Thr Lys Ala
        50                  55                  60
Glu Trp Asn Val His Pro Asp Ser Asp Phe Phe Gly Gln Glu Gly Glu
65                  70                  75                  80
Thr Gln Phe Gly Phe Pro Asn Ala Ala Gly Asn His Gly Ser Gln Lys
                85                  90                  95
Glu Thr Asp Leu Ile Thr Val Thr Gly Ser Ser Phe Leu Val
                100                 105                 110
```


<210> 2312
<211> 105
<212> PRT
<213> Homo sapiens

<400> 2312

```
Met Lys Met Ser Phe Phe Glu Arg Leu Arg Ser Ala Thr Trp Lys Pro
1               5                   10                  15
Val Pro Asp Ser His Gln Gly Pro Ala Phe Tyr Cys Gly Thr Leu Lys
                20                  25                  30
```

Ala Gly Pro Ser Pro Lys Asp Thr Phe Leu Ser Leu Leu Asn Trp Asn
        35   40   45

Tyr Gly Phe Val Phe Ile Asn Gly Arg Asn Leu Gly Arg Tyr Trp Asn
        50   55   60

Ile Gly Pro Gln Lys Thr Leu Tyr Leu Pro Gly Val Trp Leu His Pro
65   70   75   80

Glu Asp Asn Glu Val Ile Leu Phe Glu Lys Met Met Ser Gly Ser Asp
            85   90   95

Ile Lys Ser Thr Asp Lys Pro Thr Pro
            100   105

<210> 2313

<211> 567

<212> PRT

<213> Homo sapiens

<400> 2313

Met Ala Ala Pro Gln Gly Leu Ala Ala Thr Ser Pro Ser Pro Arg Leu
1   5   10   15

Ser Ala Gly Pro Arg Pro Thr Ser Val Thr Trp Cys Ser Ser Ser Phe
            20   25   30

Trp Trp Thr Pro Ile Pro Phe Pro Leu Ala Ile Ser Ala Thr Thr Pro
        35   40   45

Ser Pro Pro Arg Trp Pro Arg Trp Arg Ser Arg His Arg Pro Ala Pro
        50   55   60

Arg Ser Pro Ser Ser Gly Trp Pro Gln Ser Ala Pro His Arg Glu Gly
65   70   75   80

Arg Tyr Leu Ser Glu Glu Pro Glu Pro Tyr Leu Ala Val Tyr Leu His
            85   90   95

Ser Glu Pro Arg Pro Asn Glu Arg Asn Cys Ser Ala Ser Arg Arg Ile
            100   105   110

Arg Pro Glu Ser Leu Gln Gly Ala Asp His Arg Pro Tyr Thr Phe Phe
        115   120   125

Ile Ser Pro Gly Thr Arg Asp Pro Val Gly Ser Tyr Arg Leu Asn Leu
        130   135   140

Ser Ser His Phe Arg Trp Ser Ala Leu Glu Val Ser Val Gly Leu Tyr
145   150   155   160

Thr Ser Leu Cys Gln Tyr Phe Ser Glu Glu Asp Val Val Trp Arg Thr
            165   170   175

Glu Gly Leu Leu Pro Leu Glu Glu Thr Ser Pro Arg Gln Ala Val Cys
            180   185   190

Leu Thr Arg His Leu Thr Ala Phe Gly Thr Ser Leu Phe Met Pro Pro
        195   200   205

Ser His Val Arg Phe Val Phe Pro Glu Pro Thr Ala Asp Val Asn Tyr
    210   215   220

Ile Val Met Leu Thr Cys Ala Val Cys Leu Val Thr Tyr Met Val Met
225   230   235   240

Ala Ala Ile Leu His Lys Leu Asp Gln Leu Asp Ala Ser Arg Gly Cys
            245   250   255

Ala Ile Pro Phe Cys Gly Gln Arg Gly Arg Phe Lys Tyr Glu Ile Leu
            260   265   270

Val Lys Thr Gly Trp Gly Arg Gly Ser Gly Thr Thr Ala His Val Gly
        275   280   285

Ile Met Leu Tyr Gly Val Asp Ser Arg Ser Gly His Arg His Leu Asp
    290   295   300

Gly Asp Arg Ala Phe His Arg Asn Ser Leu Asp Ile Phe Gln Ile Ala
305   310   315   320

Thr Pro His Ser Leu Gly Ser Val Trp Lys Ile Arg Val Trp His Asp
            325   330   335

Asn Lys Gly Leu Ser Pro Ala Trp Phe Leu Gln His Ile Ile Val Arg
            340   345   350

Asp Leu Gln Thr Ala Arg Ser Thr Phe Phe Leu Val Asn Asp Trp Leu
        355   360   365

Ser Val Glu Thr Glu Ala Asn Gly Gly Leu Val Glu Lys Glu Val Leu
    370   375   380

Ala Ala Ser His Ala Ala Leu Leu Arg Phe Arg Arg Leu Leu Val Ala
385   390   395   400

Glu Leu Gln Arg Gly Phe Phe Asp Lys His Ile Trp Leu Ser Ile Trp
            405   410   415

Asp Arg Pro Pro Arg Ser Cys Phe Thr Arg Ile Gln Arg Ala Thr Cys

```
            420                425                430
Cys Val Leu Leu Ile Cys Leu Phe Leu Gly Ala Asn Ala Val Trp Tyr
        435                440                445
Gly Ala Val Gly Asp Ser Ala Tyr Ser Thr Gly Arg Val Ser Arg Leu
        450                455                460
Asn Pro Leu Ser Val Asp Thr Val Ala Val Gly Leu Val Ser Ser Val
465                470                475                480
Val Val Tyr Pro Val Tyr Leu Val Ile Leu Phe Leu Phe Arg Met Ser
                485                490                495
Arg Ser Lys Val Ala Gly Ser Pro Ser Pro Thr Pro Ala Gly Gln Gln
        500                505                510
Val Leu Asp Val Asp Ser Cys Leu Asp Ser Ser Val Leu Asp Ser Ser
        515                520                525
Phe Leu Thr Phe Ser Gly Leu His Ala Glu Val Arg Ala Leu Leu Gly
        530                535                540
Val Leu Pro Pro Trp Arg Ser Leu Asp Ser Arg Pro Cys Ala Pro Leu
545                550                555                560
Ser Arg Pro Leu Leu Asp Arg
                565
```

<210> 2314

<211> 314

<212> PRT

<213> Homo sapiens

<400> 2314

```
Met Pro Lys Ser Pro Phe Lys Arg Lys Arg Thr Thr Asn Glu Ile Lys
1                5                10                15
Asn Leu Gln Tyr Leu Pro Arg Thr Ser Glu Pro Arg Glu Met Leu Phe
                20                25                30
Glu Asp Arg Thr Arg Ala His Ala Asp His Ile Gly Gln Gly Phe Glu
        35                40                45
Arg Gln Thr Thr Ala Ala Val Gly Val Leu Lys Ala Val His Cys Gly
        50                55                60
Glu Trp Pro Asp Gln Pro Arg Ile Thr Lys Asp Val Ile Cys Phe His
```

```
        65                      70                      75                      80
Ala Glu Asp Phe Leu Glu Val Val Gln Arg Met Gln Leu Asp Leu His
                    85                      90                      95
Glu Pro Pro Leu Ser Gln Cys Val Gln Trp Val Asp Asp Ala Lys Leu
                    100                     105                     110
Asn Gln Leu Arg Arg Glu Gly Ile Arg Tyr Ala Arg Ile Gln Leu Tyr
                    115                     120                     125
Asp Asn Asp Ile Tyr Phe Ile Pro Arg Asn Val Val His Gln Phe Lys
                    130                     135                     140
Thr Val Ser Ala Val Cys Ser Leu Ala Trp His Ile Arg Leu Lys Leu
145                     150                     155                     160
Tyr His Ser Glu Glu Asp Thr Ser Gln Asn Thr Ala Thr His Glu Thr
                    165                     170                     175
Gly Thr Ser Ser Asp Ser Thr Ser Ser Val Leu Gly Pro His Thr Asp
                    180                     185                     190
Asn Met Ile Cys Ala Val Ser Lys Ala Ser Leu Asp Ser Val Phe Ser
                    195                     200                     205
Asp Lys Leu His Ser Lys Tyr Glu Leu Gln Gln Ile Lys His Glu Pro
                    210                     215                     220
Ile Ala Ser Val Arg Ile Lys Glu Glu Pro Val Asn Val Asn Ile Pro
225                     230                     235                     240
Glu Lys Thr Thr Ala Leu Asn Asn Met Asp Gly Lys Asn Val Lys Ala
                    245                     250                     255
Lys Leu Asp His Val Gln Phe Ala Glu Phe Lys Ile Asp Met Asp Ser
                    260                     265                     270
Lys Phe Glu Ser Ser Asn Lys Asp Leu Lys Glu Glu Leu Cys Pro Gly
                    275                     280                     285
Asn Leu Ser Leu Val Asp Thr Arg Gln His Ser Ser Ala His Ser Asn
                    290                     295                     300
Gln Asp Lys Lys Asp Asp Asp Ile Leu Cys
305                     310
```

<213> Homo sapiens

<400> 2315

Met Ala Gln Gln Arg Ala Leu Pro Gln Ser Lys Glu Thr Leu Leu Gln
1   5   10   15

Ser Tyr Asn Lys Arg Leu Lys Asp Asp Ile Lys Ser Ile Met Asp Asn
                20   25   30

Phe Thr Glu Ile Ile Lys Thr Ala Lys Ile Glu Asp Glu Thr Gln Val
            35   40   45

Ser Arg Ala Thr Gln Gly Glu Gln Asp Asn Tyr Glu Met His Val Arg
        50   ·   55   60

Ala Ala Asn Ile Val Arg Ala Gly Glu Ser Leu Met Lys Leu Val Ser
65   70   75   80

Asp Leu Lys Gln Phe Leu Ile Leu Asn Asp Phe Pro Ser Val Asn Glu
                85   90   95

Ala Ile Asp Gln Arg Asn Gln Gln Leu Arg Thr Leu Gln Glu Glu Cys
            100   105   110

Asp Arg Lys Leu Ile Thr Leu Arg Asp Glu Ile Ser Ile Asp Leu Tyr
            115   120   125

Glu Leu Glu Glu Glu Tyr Tyr Ser Ser Ser Ser Ser Leu Cys Glu Ala
        130   135   140

Asn Asp Leu Pro Leu Cys Glu Ala Tyr Gly Arg Leu Asp Leu Asp Thr
145   150   155   160

Asp Ser Ala Asp Gly Leu Ser Ala Pro Leu Leu Ala Ser Pro Glu Pro
                165   170   175

Ser Ala Gly Pro Leu Gln Val Ala Ala Pro Ala His Ser His Ala Gly
            180   185   190

Gly Pro Gly Pro Thr Glu His Ala
            195   200

<210> 2316

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2316

Met Thr Thr Ala Thr Pro Leu Gly Asp Thr Thr Phe Phe Ser Leu Asn
1   5   10   15

Met Thr Thr Arg Gly Glu Asp Phe Leu Tyr Lys Ser Ser Gly Ala Ile
                20   25   30

Val Ala Ala Val Val Val Val Ile Ile Ile Phe Thr Val Val Leu
            35   40   45

Ile Leu Leu Lys Met Tyr Asn Arg Lys Met Arg Thr Arg Arg Glu Leu
            50   55   60

Glu Pro Lys Gly Pro Lys Pro Thr Ala Pro Ser Ala Val Gly Pro Asn
65   70   75   80

Ser Asn Gly Ser Gln His Pro Ala Thr Val Thr Phe Ser Pro Val Asp
                85   90   95

Val Gln Val Glu Thr Arg
                100

<210> 2317

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2317

Met Val Met Leu Glu Asp Ser Asn Ser Ser Thr Gly Cys Gly Ala Arg
1   5   10   15

Asn Cys Val Glu Cys Leu Val Phe Leu Ser Val Leu Gly Cys Gln Ser
                20   25   30

Glu Arg Lys Gly Gln Met Arg Thr Gln Gln Ala Gly Arg Trp Leu Arg
                35   40   45

Ala Gly Arg Glu Ala Ser Ser Glu Thr Asn Pro Glu Gly Thr Leu Ile
            50   55   60

Leu Asp Phe Gln Ser Pro Glu Leu Pro Leu Ala Ala Arg Gly Trp Gln
65   70   75   80

Glu His Glu Pro Val Val Arg Cys Asn Val Leu Pro His Ala Phe Ser
                85   90   95

Ser Trp Cys Phe Gly Gln Asn Phe Pro Lys Trp Ser Glu Thr Gln Glu

```
                100                    105                     110
Leu Arg Asn Arg Val Thr Val Lys Arg Trp Glu Ile Ile Ser Cys Glu
            115                    120                125
Asn Ser Gly Arg Lys
        130




<210> 2318
<211> 224
<212> PRT
<213> Homo sapiens


<400> 2318
Met Tyr Arg Pro Ala Thr Ala Leu Gly Ser Asn Arg Ala Val Gln Leu
 1               5                   10                  15
Leu Leu Glu Thr Ser Ala Asp Asn Gln His Tyr Tyr Cys Asp Ser Leu
            20                  25                  30
Lys Ala Cys Leu Val Thr Thr Val Thr Ser Ser Gly Pro Ser Gln Ser
            35                  40                  45
Thr Ile Lys Leu Val Ala Thr Asn Met Ile Ala Asn Gly Lys Leu Ala
        50                  55                  60
Glu Gly Val Gln Leu Leu Cys Leu Ile Asp Lys Ala Ala Asp Ala Cys
65                  70                  75                  80
Arg Tyr Leu Gln Thr Tyr Gly Glu Trp Asn Arg Ala Ala Trp Leu Ala
                85                  90                  95
Lys Val Arg Leu Asn Pro Glu Glu Cys Ala Asp Val Leu Arg Arg Trp
            100                 105                 110
Val Asp His Leu Cys Ser Pro Gln Val Asn Gln Lys Ser Lys Ala Leu
            115                 120                 125
Leu Val Leu Leu Ser Leu Gly Cys Phe Phe Ser Val Ala Glu Thr Leu
            130                 135                 140
His Ser Met Arg Tyr Phe Asp Arg Ala Ala Leu Phe Val Glu Ala Cys
145                 150                 155                 160
Leu Lys Tyr Gly Ala Phe Glu Val Thr Glu Asp Thr Glu Lys Leu Ile
                165                 170                 175
Thr Ala Ile Tyr Ala Asp Tyr Ala Arg Ser Ser Lys Asn Leu Gly Phe
```

```
                  180                      185                     190
Lys Gln Gly Ala Val Leu Phe Ala Ser Lys Ala Gly Ala Ala Gly Lys
             195                     200                     205
Asp Leu Leu Asn Glu Leu Glu Ser Pro Lys Glu Glu Pro Ile Glu Glu
             210                     215                     220
```

<210> 2319

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2319

```
Met Pro Gly Ser Leu Lys Arg Asp His Ile Leu Tyr His Leu Ile Leu
 1               5                  10                      15

Ile Trp Gly Ile Ile Phe Ile Ser His Gln Asp Lys Ile Pro Gly Gly
                20                  25                  30
Gly Ile Thr Cys Lys Val His Thr Ser Pro Pro Met Tyr Ser Leu Asp
            35                  40                  45
Arg Ile Phe Ala Gly Phe Arg Thr Gln Ser Gln Met Leu Leu Asp His
        50                  55                  60
Val Glu Glu Arg Asp Glu Val Leu His Cys Gln Phe Ser Asp Asn Ser
65                  70                  75                      80
Asp Asp Glu Glu Ser Glu Gly Gln Glu Lys Ser Gly Thr Arg Cys Arg
                85                  90                  95
Ser Arg Ser Trp Ile Gln Lys Pro Asp Ser Val Pro Leu Leu Asn
            100                 105                 110
```

<210> 2320

<211> 733

<212> PRT

<213> Homo sapiens

<400> 2320

Met Pro Ala Glu Thr Asp Glu Cys Arg Leu Asn Gln Asn Ile Cys Gly
1   5   10   15
His Gly Glu Cys Val Pro Gly Pro Pro Asp Tyr Ser Cys Tyr Cys Asn
            20   25   30
Pro Gly Tyr Arg Ser His Pro Gln His Arg Tyr Cys Val Asp Val Asn
        35   40   45
Glu Cys Glu Ala Glu Pro Cys Gly Pro Gly Arg Gly Ile Cys Met Asn
    50   55   60
Thr Gly Gly Ser Tyr Asn Cys His Cys Asn Arg Gly Tyr Arg Leu His
65   70   75   80
Val Gly Ala Gly Gly Arg Ser Cys Val Asp Leu Asn Glu Cys Ala Lys
            85   90   95
Pro His Leu Cys Gly Asp Gly Gly Phe Cys Ile Asn Phe Pro Gly His
            100   105   110
Tyr Lys Cys Asn Cys Tyr Pro Gly Tyr Arg Leu Lys Ala Ser Arg Pro
        115   120   125
Pro Val Cys Glu Asp Ile Asp Glu Cys Arg Asp Pro Ser Ser Cys Pro
        130   135   140
Asp Gly Lys Cys Glu Asn Lys Pro Gly Ser Phe Lys Cys Ile Ala Cys
145   150   155   160
Gln Pro Gly Tyr Arg Ser Gln Gly Gly Gly Ala Cys Arg Asp Val Asn
            165   170   175
Glu Cys Ala Glu Gly Ser Pro Cys Ser Pro Gly Trp Cys Glu Asn Leu
            180   185   190
Pro Gly Ser Phe Arg Cys Thr Cys Ala Gln Gly Tyr Ala Pro Ala Pro
        195   200   205
Asp Gly Arg Ser Cys Leu Asp Val Asp Glu Cys Glu Ala Gly Asp Val
        210   215   220
Cys Asp Asn Gly Ile Cys Ser Asn Thr Pro Gly Ser Phe Gln Cys Gln
225   230   235   240
Cys Leu Ser Gly Tyr His Leu Ser Arg Asp Arg Ser His Cys Glu Asp
            245   250   255
Ile Asp Glu Cys Asp Phe Pro Ala Ala Cys Ile Gly Gly Asp Cys Ile
            260   265   270
Asn Thr Asn Gly Ser Tyr Arg Cys Leu Cys Pro Gln Gly His Arg Leu
        275   280   285

Val Gly Gly Arg Lys Cys Gln Asp Ile Asp Glu Cys Ser Gln Asp Pro
    290   295   300

Ser Leu Cys Leu Pro His Gly Ala Cys Lys Asn Leu Gln Gly Ser Tyr
305   310   315   320

Val Cys Val Cys Asp Glu Gly Phe Thr Pro Thr Gln Asp Gln His Gly
        325   330   335

Cys Glu Glu Val Glu Gln Pro His His Lys Lys Glu Cys Tyr Leu Asn
        340   345   350

Phe Asp Asp Thr Val Phe Cys Asp Ser Val Leu Ala Thr Asn Val Thr
      355   360   365

Gln Gln Glu Cys Cys Cys Ser Leu Gly Ala Gly Trp Gly Asp His Cys
    370   375   380

Glu Ile Tyr Pro Cys Pro Val Tyr Ser Ser Ala Glu Phe His Ser Leu
385   390   395   400

Cys Pro Asp Gly Lys Gly Tyr Thr Gln Asp Asn Ile Ile Val Asn Tyr
        405   410   415

Gly Ile Pro Ala His Arg Asp Ile Asp Glu Cys Met Leu Phe Gly Ser
        420   425   430

Glu Ile Cys Lys Glu Gly Lys Cys Val Asn Thr Gln Pro Gly Tyr Glu
        435   440   445

Cys Tyr Cys Lys Gln Gly Phe Tyr Tyr Asp Gly Asn Leu Leu Glu Cys
    450   455   460

Val Asp Val Asp Glu Cys Leu Asp Glu Ser Asn Cys Arg Asn Gly Val
465   470   475   480

Cys Glu Asn Thr Arg Gly Gly Tyr Arg Cys Ala Cys Thr Pro Pro Ala
        485   490   495

Glu Tyr Ser Pro Ala Gln Arg Gln Cys Leu Ser Pro Glu Glu Met Asp
        500   505   510

Val Asp Glu Cys Gln Asp Pro Ala Ala Cys Arg Pro Gly Arg Cys Val
      515   520   525

Asn Leu Pro Gly Ser Tyr Arg Cys Glu Cys Arg Pro Pro Trp Val Pro
    530   535   540

Gly Pro Ser Gly Arg Asp Cys Gln Leu Pro Glu Ser Pro Ala Glu Arg
545   550   555   560

Ala Pro Glu Arg Arg Asp Val Cys Trp Ser Gln Arg Gly Glu Asp Gly
        565   570   575

Met Cys Ala Gly Pro Leu Ala Gly Pro Ala Leu Thr Phe Asp Asp Cys
        580   585   590

Cys Cys Arg Gln Gly Arg Gly Trp Gly Ala Gln Cys Arg Pro Cys Pro
        595   600   605

Pro Arg Gly Ala Gly Ser His Cys Pro Thr Ser Gln Ser Glu Ser Asn
        610   615   620

Ser Phe Trp Asp Thr Ser Pro Leu Leu Leu Gly Lys Pro Pro Arg Asp
625   630   635   640

Glu Asp Ser Ser Glu Glu Asp Ser Asp Glu Cys Arg Cys Val Ser Gly
            645   650   655

Arg Cys Val Pro Arg Pro Gly Gly Ala Val Cys Glu Cys Pro Gly Gly
        660   665   670

Phe Gln Leu Asp Ala Ser Arg Ala Arg Cys Val Asp Ile Asp Glu Cys
        675   680   685

Arg Glu Leu Asn Gln Arg Gly Leu Leu Cys Lys Ser Glu Arg Cys Val
        690   695   700

Asn Thr Ser Gly Ser Phe Arg Cys Val Cys Lys Ala Gly Phe Ala Arg
705   710   715   720

Ser Arg Pro His Gly Ala Cys Val Pro Gln Arg Arg Arg
          725   730

<210> 2321

<211> 841

<212> PRT

<213> Homo sapiens

<400> 2321

Met Thr Val Leu Glu Gln Asp Thr Gln Gly Leu Asp Gly Trp Trp Leu
1   5   10   15

Cys Ser Leu His Gly Arg Gln Gly Ile Val Pro Gly Asn Arg Leu Lys
        20   25   30

Ile Leu Val Gly Met Tyr Asp Lys Lys Pro Ala Gly Pro Gly Ser Gly
        35   40   45

Pro Pro Ala Thr Pro Ala Gln Pro Gln Pro Gly Leu His Ala Pro Ala
        50   55   60

Pro Pro Ala Ser Gln Tyr Thr Pro Met Leu Pro Asn Thr Tyr Gln Pro
65   70   75   80
Gln Pro Asp Ser Val Tyr Leu Val Pro Thr Pro Ser Lys Ala Gln Gln
                   85   90   95
Gly Leu Tyr Gln Val Pro Gly Pro Ser Pro Gln Phe Gln Ser Pro Pro
                  100   105   110
Ala Lys Gln Thr Ser Thr Phe Ser Lys Gln Thr Pro His His Pro Phe
                  115   120   125
Pro Ser Pro Ala Thr Asp Leu Tyr Gln Val Pro Pro Gly Pro Gly Gly
                  130   135   140
Pro Ala Gln Asp Ile Tyr Gln Val Pro Pro Ser Ala Gly Met Gly His
145   150   155   160
Asp Ile Tyr Gln Val Pro Pro Ser Met Asp Thr Arg Ser Trp Glu Gly
                  165   170   175
Thr Lys Pro Pro Ala Lys Val Val Val Pro Thr Arg Val Gly Gln Gly
                  180   185   190
Tyr Val Tyr Glu Ala Ala Gln Pro Glu Gln Asp Glu Tyr Asp Ile Pro
                  195   200   205
Arg His Leu Leu Ala Pro Gly Pro Gln Asp Ile Tyr Asp Val Pro Pro
                  210   215   220
Val Arg Gly Leu Leu Pro Ser Gln Tyr Gly Gln Glu Val Tyr Asp Thr
225   230   235   240
Pro Pro Met Ala Val Lys Gly Pro Asn Gly Arg Asp Pro Leu Leu Glu
                  245   250   255
Val Tyr Asp Val Pro Pro Ser Val Glu Lys Gly Leu Pro Pro Ser Asn
                  260   265   270
His His Ala Val Tyr Asp Val Pro Pro Ser Val Ser Lys Asp Val Pro
                  275   280   285
Asp Gly Pro Leu Leu Arg Glu Glu Thr Tyr Asp Val Pro Pro Ala Phe
                  290   295   300
Ala Lys Ala Lys Pro Phe Asp Pro Ala Arg Thr Pro Leu Val Leu Ala
305   310   315   320

Ala Pro Pro Pro Asp Ser Pro Pro Ala Glu Asp Val Tyr Asp Val Pro
                  325   330   335
Pro Pro Ala Pro Asp Leu Tyr Asp Val Pro Pro Gly Leu Arg Arg Pro

```
                340                    345                    350
Gly Pro Gly Thr Leu Tyr Asp Val Pro Arg Glu Arg Val Leu Pro Pro
            355                    360                    365
Glu Val Ala Asp Gly Gly Val Val Asp Ser Gly Val Tyr Ala Val Pro
        370                    375                    380
Pro Pro Ala Glu Arg Glu Ala Pro Ala Glu Gly Lys Arg Leu Ser Ala
385                    390                    395                    400
Ser Ser Thr Gly Ser Thr Arg Ser Ser Gln Ser Ala Ser Ser Leu Glu
                405                    410                    415
Val Ala Gly Pro Gly Arg Glu Pro Leu Glu Leu Glu Val Ala Val Glu
            420                    425                    430
Ala Leu Ala Arg Leu Gln Gln Gly Val Ser Ala Thr Val Ala His Leu
            435                    440                    445
Leu Asp Leu Ala Gly Ser Ala Gly Ala Thr Gly Ser Trp Arg Ser Pro
        450                    455                    460
Ser Glu Pro Gln Glu Pro Leu Val Gln Asp Leu Gln Ala Ala Val Ala
465                    470                    475                    480
Ala Val Gln Ser Ala Val His Glu Leu Leu Glu Phe Ala Arg Ser Ala
            485                    490                    495
Val Gly Asn Ala Ala His Thr Ser Asp Arg Ala Leu His Ala Lys Leu
            500                    505                    510
Ser Arg Gln Leu Gln Lys Met Glu Asp Val His Gln Thr Leu Val Ala
            515                    520                    525
His Gly Gln Ala Leu Asp Ala Gly Arg Gly Gly Ser Gly Ala Thr Leu
            530                    535                    540
Glu Asp Leu Asp Arg Leu Val Ala Cys Ser Arg Ala Val Pro Glu Asp
545                    550                    555                    560
Ala Lys Gln Leu Ala Ser Phe Leu His Gly Asn Ala Ser Leu Leu Phe
            565                    570                    575
Arg Arg Thr Lys Ala Thr Ala Pro Gly Pro Glu Gly Gly Gly Thr Leu
            580                    585                    590
His Pro Asn Pro Thr Asp Lys Thr Ser Ser Ile Gln Ser Arg Pro Leu
            595                    600                    605
Pro Ser Pro Pro Lys Phe Thr Ser Gln Asp Ser Pro Asp Gly Gln Tyr
        610                    615                    620
Glu Asn Ser Glu Gly Gly Trp Met Glu Asp Tyr Asp Tyr Val His Leu
```

```
625                    630                    635                    640
Gln Gly Lys Glu Glu Phe Glu Lys Thr Gln Lys Glu Leu Leu Glu Lys
                    645                    650                    655
Gly Ser Ile Thr Arg Gln Gly Lys Ser Gln Leu Glu Leu Gln Gln Leu
                    660                    665                    670
Lys Gln Phe Glu Arg Leu Glu Gln Glu Val Ser Arg Pro Ile Asp His
                    675                    680                    685
Asp Leu Ala Asn Trp Thr Pro Ala Gln Pro Leu Ala Pro Gly Arg Thr
         690                    695                    700
Gly Gly Leu Gly Pro Ser Asp Arg Gln Leu Leu Leu Phe Tyr Leu Glu
705                    710                    715                    720
Gln Cys Glu Ala Asn Leu Thr Thr Leu Thr Asn Ala Val Asp Ala Phe
                    725                    730                    735
Phe Thr Ala Val Ala Thr Asn Gln Pro Pro Lys Ile Phe Val Ala His
                    740                    745                    750
Ser Lys Phe Val Ile Leu Ser Ala His Lys Leu Val Phe Ile Gly Asp
                    755                    760                    765
Thr Leu Ser Arg Gln Ala Lys Ala Ala Asp Val Arg Ser Gln Val Thr
         770                    775                    780
His Tyr Ser Asn Leu Leu Cys Asp Leu Leu Arg Gly Ile Val Ala Thr
785                    790                    795                    800
Thr Lys Ala Ala Ala Leu Gln Tyr Pro Ser Pro Ser Ala Ala Gln Asp
                    805                    810                    815
Met Val Glu Arg Val Lys Glu Leu Gly His Ser Thr Gln Gln Phe Arg
                    820                    825                    830
Arg Val Leu Gly Gln Leu Ala Ala Ala
         835                    840
```

<210> 2322

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2322

Met Lys Ser Leu Met Leu Leu Gly Leu His Thr Gln Glu Leu Leu Thr

```
 1                    5                    10                    15
Leu Met Phe Gly Ala Ser Gly Glu Ser Trp Lys Ser Gly Ser Cys Pro
                20                    25                    30
Gly Ser Ile Ser Thr Trp Ser Leu Lys Tyr His Val Ile Pro Pro Ser
            35                    40                    45
Pro Ser Gly Leu Ser Ser Ser Pro Trp Ser Leu Trp His Ser Asn Lys
        50                    55                    60
His Val Met Gly Gln Gly Phe Arg Arg Val Lys Asn Arg Ile Cys Leu
65                    70                    75                    80
Ala Ser Gln Ser Leu Glu Thr His Arg Ala Ser Phe Gln Leu His Ser
                85                    90                    95
Cys Trp Ser Glu Pro Val Ile Thr Lys Pro Ala Glu Ile Gln Gly Asn
            100                   105                   110
Arg
```

<210> 2323

<211> 257

<212> PRT

<213> Homo sapiens

<400> 2323

```
Met Pro Gly Gly Val Gln Gly Ser Gly Leu Thr Arg Pro Arg Gly His
 1                    5                    10                    15
Pro Gln Asp Asp Leu Trp Pro Arg Val Thr Pro Phe Cys Pro Ala Gly
                20                    25                    30
Gln His Ile Tyr Leu Ser Ala Arg Ile Asp Gly Asn Leu Val Val Arg
            35                    40                    45
Pro Tyr Thr Pro Ile Ser Ser Asp Asp Asp Lys Gly Phe Val Asp Leu
        50                    55                    60
Val Ile Lys Val Tyr Phe Lys Asp Thr His Pro Lys Phe Pro Ala Gly
65                    70                    75                    80
Gly Lys Met Ser Gln Tyr Leu Glu Ser Met Gln Ile Gly Asp Thr Ile
                85                    90                    95
Glu Phe Arg Gly Pro Ser Gly Leu Leu Val Tyr Gln Gly Lys Gly Lys
```

```
                100                   105                   110
Phe Ala Ile Arg Pro Asp Lys Lys Ser Asn Pro Ile Ile Arg Thr Val
            115                   120                   125
Lys Ser Val Gly Met Ile Ala Gly Gly Thr Gly Ile Thr Pro Met Leu
            130                   135                   140
Gln Val Ile Arg Ala Ile Met Lys Asp Pro Asp Asp His Thr Val Cys
145.                150                   155                   160
His Leu Leu Phe Ala Asn Gln Thr Glu Lys Asp Ile Leu Leu Arg Pro
                165                   170                   175
Glu Leu Glu Glu Leu Arg Asn Lys His Ser Ala Arg Phe Lys Leu Trp
                180                   185                   190
Tyr Thr Leu Asp Arg Ala Pro Glu Ala Trp Asp Tyr Gly Gln Gly Phe
                195                   200                   205
Val Asn Glu Glu Met Ile Arg Asp His Leu Pro Pro Pro Glu Glu Glu
            210                   215                   220
Pro Leu Val Leu Met Cys Gly Pro Pro Pro Met Ile Gln Tyr Ala Cys
225                   230                   235                   240
Leu Pro Asn Leu Asp His Val Gly His Pro Thr Glu Arg Cys Phe Val
                245                   250                   255
Phe
```

<210> 2324

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2324

```
Met Ala Gly Gly Lys Gly Ala Lys Gln Ile Phe Pro Thr Phe Tyr Leu
1               5                   10                  15
Ala Asn Leu Ser Phe Ala Ala Val Met Cys Gln Val Leu Gly Cys Trp
            20                  25                  30
Gly Ile Pro Ser Glu Gln Ser Leu Phe Ser Thr Leu Glu Glu Leu Arg
        35                  40                  45
Glu Lys Glu Ile Asp Asn Tyr Cys Val Met Arg Leu Gln Thr Glu Gly
```

```
                50                  55                  60
Leu Ala Ser Ala His Pro Ser Trp Ala Ser Arg Gly His Cys Ser Ile
65                  70                  75                  80
Thr Thr Arg Pro Cys Thr Pro Ala Ser Pro Pro Ser Pro Ser Trp Ala
                    85                  90                  95
Trp Ala Pro Leu
                100
```

<210> 2325

<211> 449

<212> PRT

<213> Homo sapiens

<400> 2325

```
Met Met Leu Gly Thr Glu Gly Gly Glu Gly Phe Val Val Lys Val Arg
 1               5                  10                  15
Gly Leu Pro Trp Ser Cys Ser Ala Asp Glu Val Gln Arg Phe Phe Ser
                20                  25                  30
Asp Cys Lys Ile Gln Asn Gly Ala Gln Gly Ile Arg Phe Ile Tyr Thr
                35                  40                  45
Arg Glu Gly Arg Pro Ser Gly Glu Ala Phe Val Glu Leu Glu Ser Glu
        50                  55                  60
Asp Glu Val Lys Leu Ala Leu Lys Lys Asp Arg Glu Thr Met Gly His
65                  70                  75                  80
Arg Tyr Val Glu Val Phe Lys Ser Asn Asn Val Glu Met Asp Trp Val
                85                  90                  95
Leu Lys His Thr Gly Pro Asn Ser Pro Asp Thr Ala Asn Asp Gly Phe
                100                 105                 110
Val Arg Leu Arg Gly Leu Pro Phe Gly Cys Ser Lys Glu Glu Ile Val
                115                 120                 125
Gln Phe Phe Ser Gly Leu Glu Ile Val Pro Asn Gly Ile Thr Leu Pro
        130                 135                 140
Val Asp Phe Gln Gly Arg Ser Thr Gly Glu Ala Phe Val Gln Phe Ala
145                 150                 155                 160
Ser Gln Glu Ile Ala Glu Lys Ala Leu Lys Lys His Lys Glu Arg Ile
```

```
                    165                    170                    175
Gly His Arg Tyr Ile Glu Ile Phe Lys Ser Ser Arg Ala Glu Val Arg
                180                    185                    190
Thr His Tyr Asp Pro Pro Arg Lys Leu Met Ala Met Gln Arg Pro Gly
                195                    200                    205
Pro Tyr Asp Arg Pro Gly Ala Gly Arg Gly Tyr Asn Ser Ile Gly Arg
                210                    215                    220
Gly Ala Gly Phe Glu Arg Met Arg Arg Gly Ala Tyr Gly Gly Gly Tyr
225                    230                    235                    240
Gly Gly Tyr Asp Asp Tyr Asn Gly Tyr Asn Asp Gly Tyr Gly Phe Gly
                245                    250                    255
Ser Asp Arg Phe Gly Arg Asp Leu Asn Tyr Cys Phe Ser Gly Met Ser
                260                    265                    270
Asp His Arg Tyr Gly Asp Gly Gly Ser Thr Phe Gln Ser Thr Thr Gly
                275                    280                    285
His Cys Val His Met Arg Gly Leu Pro Tyr Arg Ala Thr Glu Asn Asp
                290                    295                    300
Ile Tyr Asn Phe Phe Ser Pro Leu Asn Pro Val Arg Val His Ile Glu
305                    310                    315                    320
Ile Gly Pro Asp Gly Arg Val Thr Gly Glu Ala Asp Val Glu Phe Ala
                325                    330                    335
Thr His Glu Asp Ala Val Ala Ala Met Ser Lys Asp Lys Ala Asn Met
                340                    345                    350
Gln His Arg Tyr Val Glu Leu Phe Leu Asn Ser Thr Ala Gly Ala Ser
                355                    360                    365
Gly Gly Ala Tyr Glu His Arg Tyr Val Glu Leu Phe Leu Asn Ser Thr
                370                    375                    380
Ala Gly Ala Ser Gly Gly Ala Tyr Gly Ser Gln Met Met Gly Gly Met
385                    390                    395                    400
Gly Leu Ser Asn Gln Ser Ser Tyr Gly Gly Pro Ala Ser Gln Gln Leu
                405                    410                    415
Ser Gly Gly Tyr Gly Gly Gly Tyr Gly Gly Gln Ser Ser Met Ser Gly
                420                    425                    430
Tyr Asp Gln Val Leu Gln Glu Asn Ser Ser Asp Phe Gln Ser Asn Ile
                435                    440                    445
Ala
```

<210> 2326
<211> 109
<212> PRT
<213> Homo sapiens

<400> 2326
Met Asp Ile Pro Lys Cys Tyr Pro Pro Cys Lys Val Ser Trp Pro Pro
1   5   10   15
Lys Leu Glu Asp Val Thr Asp Pro Pro Leu Pro Asn Thr Glu Gly Ser
                20   25   30
Cys Cys Cys Ser His Gly His Pro Phe Thr Gln Pro Ala Ser Leu Lys
            35   40   45
Cys Arg Leu Pro Ser His Pro Ser Leu Lys Ala Pro Val Leu Val Thr
        50   55   60
Leu Pro Ile Thr Ala Gln Thr Arg Ala His Tyr Val Pro Glu Ala Glu
65   70   75   80
Asp Phe Gln Arg Asn Tyr Leu Phe Val Lys Ile Gln Ser Asn Ile Tyr
                85   90   95
Ile Thr Tyr Leu Tyr His Gln Tyr Cys Leu His Met Phe
                100   105

<210> 2327
<211> 152
<212> PRT
<213> Homo sapiens

<400> 2327
Met Gly Arg Ser Gly Cys Gly Ser Arg Gly Gly Ile Leu Ser Trp Arg
1   5   10   15
Ala Pro Gln Arg Ser Pro Gly Ser Leu Ser Pro Trp Leu Leu Gly Arg
                20   25   30
Arg Gly Arg Arg Pro Trp Gly Ser Ser Arg Gly Leu Gly Gly Gly Asp

```
            35                    40                    45
Arg Trp Leu Gly Met Glu Glu Ala Lys Pro Arg Ala Phe Ser Pro Ala
       50                    55                    60
Pro Ala Gly Asp Phe Gln Ala Pro Ser Thr Ala Asp Arg Ala Arg Ala
65                    70                    75                    80
Arg Gly Arg Trp Cys Gly Asp Leu Pro Gly Leu Trp Gly His Glu Arg
                 85                    90                    95
Leu Pro Asp Ala Leu Ala Pro Gln Ala Leu Leu Val Thr Gly Thr Gly
                100                   105                   110
Leu Gly Ser Ile Trp Ala Thr Ala Val Thr Leu Arg Pro Leu Leu Arg
            115                   120                   125
Pro Gly Gln Gly Ser Val Gly Ala Gly Arg Lys Gly Thr His Ser Phe
       130                   135                   140
Leu Gly Ala Pro Val Trp Pro Ala
145                   150
```

<210> 2328

<211> 229

<212> PRT

<213> Homo sapiens

<400> 2328

```
Met Asn His Glu Trp Ile Gly Asn Glu Trp Leu Pro Ser Leu Gly Leu
1                 5                    10                   15
Pro Gln Tyr Arg Ser Tyr Phe Met Glu Cys Leu Val Asp Ala Arg Met
            20                   25                    30
Leu Asp His Leu Thr Lys Lys Asp Leu Arg Val His Leu Lys Met Val
            35                   40                    45
Asp Ser Phe His Arg Thr Ser Leu Gln Tyr Gly Ile Met Cys Leu Lys
       50                    55                   60
Arg Leu Asn Tyr Asp Arg Lys Glu Leu Glu Lys Arg Arg Glu Glu Ser
65                    70                   75                    80
Gln His Glu Ile Lys Asp Val Leu Val Trp Thr Asn Asp Gln Val Val
                 85                    90                   95
His Trp Val Gln Ser Ile Gly Leu Arg Asp Tyr Ala Gly Asn Leu His
```

```
                    100                    105                    110
Glu Ser Gly Val His Gly Ala Leu Leu Ala Leu Asp Glu Asn Phe Asp
            115                    120                    125
His Asn Thr Leu Ala Leu Ile Leu Gln Ile Pro Thr Gln Asn Thr Gln
        130                    135                    140
Ala Arg Gln Val Met Glu Arg Glu Phe Asn Asn Leu Leu Ala Leu Gly
145                    150                    155                    160
Thr Asp Arg Lys Leu Asp Asp Gly Asp Asp Lys Val Phe Arg Arg Ala
                165                    170                    175
Pro Ser Trp Arg Lys Arg Phe Arg Pro Arg Glu His His Gly Arg Gly
                180                    185                    190
Gly Met Leu Ser Ala Ser Ala Glu Thr Leu Pro Ala Gly Phe Arg Val
            195                    200                    205
Ser Thr Leu Gly Thr Leu Gln Pro Pro Pro Ala Pro Pro Lys Lys Ile
        210                    215                    220
Met Pro Glu Gly Glu
225
```

<210> 2329

<211> 170

<212> PRT

<213> Homo sapiens

<400> 2329

```
Met Asn Arg Leu Leu Phe Phe Lys Ser Gln Gly Leu Ala Leu Leu Pro
  1                 5                    10                    15
Arg Leu Lys Cys Ser Gly Ala Ile Ile Ala His Cys Asn Phe Glu Leu
                20                    25                    30
Leu Gly Ser Ser Asn Phe Pro Asp Leu Ala Ser Glu Arg Ala Gly Thr
            35                    40                    45
Thr Ala Phe Gly Thr Val Val Leu Ile Arg Leu Ser Asn His Ile Ala
        50                    55                    60
Met Leu Trp Asp Phe Trp Arg Arg Lys Gln Thr Ile Trp Ser Thr Arg
65                    70                    75                    80
Thr Leu Asn His His His Leu Val Ser Cys Ile Ser Phe Ile Ile Ile
```

```
                85                    90                    95
Phe Glu Thr Glu Ser His Ser Val Thr Gln Ala Gly Val Gln Trp Cys
                100                   105                   110
Asn Leu Ser Ser Leu Gln Pro Pro Pro Gly Phe Lys Arg Phe Ser
                115                   120                   125
Cys Leu Thr Leu Pro Thr Ser Trp Asp Tyr Met Gln Met Pro Pro Cys
                130                   135                   140
Leu Ala Asn Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro Tyr Trp
145                   150                   155                   160
Pro Gly Trp Ser Arg Thr Pro Asp Cys Arg
                165                   170
```

<210> 2330

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2330

```
Met Pro Val Pro Gly Leu Pro Gln Arg Ala Glu Gln Val Cys Phe Ile
1               5                     10                    15
Phe Gly Leu Leu Leu Leu Glu Cys Leu Thr Leu Phe Val Val Leu Phe
                20                    25                    30
Pro Trp Tyr Leu Ala Pro Ser Gly Cys Phe Ile Ile Cys Gly Leu Asn
                35                    40                    45
Val Glu Asp Ser Ala Gly Glu Pro Val Glu Val Glu Thr Gly Gly Glu
                50                    55                    60
Arg Met Leu Leu Gly Cys Gly Asn Gly Phe Leu Lys Cys Trp Asn Phe
65                    70                    75                    80
Phe His Gly Pro Leu Ser Ser Val Gly Arg Asn Pro Gln Ala Tyr Pro
                85                    90                    95
Val Phe Val Phe Gln Asn Tyr Ser Tyr
                100                   105
```

<210> 2331

<211> 256

<212> PRT

<213> Homo sapiens

<400> 2331

Met Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr Leu Ser Ala Trp
1   5   10   15

Gly Leu Ser Ser Val Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr
                20   25   30

Leu Ser Ala Trp Gly Leu Ser Ser Val Thr Leu Ser Ala Trp Gly Leu
            35   40   45

Ser Ser Val Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr Leu Ser
        50   55   60

Ala Cys Gly Leu Ser Ser Val Thr Leu Ser Ala Trp Gly Leu Ser Ser
65   70   75   80

Val Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr Leu Ser Ala Trp
                85   90   95

Gly Leu Ser Ser Val Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr
                100   105   110

Leu Ser Ala Cys Cys Leu Ser Ser Met Thr Leu Ser Ala Cys Gly Leu
            115   120   125

Ser Ser Thr Thr Leu Phe Ala Cys Arg Leu Ser Ser Val Thr Val Ser
        130   135   140

Thr Cys Ser Leu Ser Ser Val Thr Leu Ser Ala Cys Gly Leu Ser Arg
145   150   155   160

Val Thr Leu Ser Ala Cys Gly Leu Ser Ser Met Thr Pro Ser Ala Cys
                165   170   175

Gly Leu Ser Arg Val Thr Leu Ser Ala Cys His Leu Ser Ser Met Thr
                180   185   190

Val Ser Thr Cys Gly Leu Ser Ser Met Thr Leu Phe Ala Cys Gly Leu
                195   200   205

Ser Ser Met Thr Leu Ser Ala Cys Arg Leu Ser Asn Val Thr Leu Ser
        210   215   220

Asn Phe Pro Leu Ala Ser Ala Pro Gly Glu Val Ala Phe Ser Leu Pro
225   230   235   240

Cys Cys Leu Leu Phe Ser Cys Lys Val Ser Ser Asp Phe Leu Tyr Pro

```
                    245                 250                 255


<210> 2332

<211> 255

<212> PRT

<213> Homo sapiens


<400> 2332

Met Pro Val Glu Ser Val Gly Ala Met Glu Pro Leu Pro Gly Ala Leu
  1               5                  10                  15

Gln Trp Gly Val Gln Ala Thr Leu Glu Arg Gly Arg Gly Pro Leu Trp
               20                  25                  30

Arg Arg Leu Pro Gly Ala Met Gly Ser Arg Gln Lys Ala Ala Thr Glu
             35                  40                  45

Gly Pro Ala Gln Val Arg Ala Ala Arg Pro Lys Thr Leu Tyr Ser Pro
         50                  55                  60

Trp Thr Val Pro Thr Ser Ala His Thr Ala Val Pro Thr Ser Gly Thr
 65                  70                  75                  80

Ala Phe Ser Val Cys Arg Asp Pro Ala Ala Gln Ala Ala Ala Val Pro
                 85                  90                  95

Leu Ala Ser Trp Ser Arg Met Gly Ala Val Cys Arg Ser Pro Leu Ala
                100                 105                 110

Ala Val Ala Ser Pro Val Pro Met Pro Leu Gly Ser Trp Pro Arg Pro
             115                 120                 125

Arg Arg Cys Ser Trp Thr Ala Lys Thr Ala Pro Val Ser Thr Ser Pro
         130                 135                 140

Trp Cys Ala His Thr Arg Ser Val Gln Ser Leu Gly Leu Gly Gln Pro
145                 150                 155                 160

Gly Ala Val Ala Arg Pro Pro Val Val Gly Ala Leu Trp Ser Asp Val
                165                 170                 175

Gly Leu Val Arg Gly Val Leu Gly Trp His His Ala Arg Pro Arg Thr
             180                 185                 190

Gln Ser Asn Gly Arg Ser Val Thr Cys Ser Pro Ala Leu Ser Ala Pro
             195                 200                 205

Leu Ala Arg Cys Leu Val Pro Val Pro Pro His Ala Arg Ala Ser Ala
```

```
            210                 215                 220
Gly Ile Cys Ser Leu Val Pro Ser Val Cys Arg Ser Pro Ala Ser Leu
225                 230                 235                 240
Ala Val Ala Ala Leu Glu Gly Arg Trp Val Arg Gly Ala Val Ser
                245                 250                 255
```

<210> 2333

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2333

```
Met Ala Arg Ala Gly Val Asp Val Gly Leu Gly Glu Glu Gly Ala His
 1               5                   10                  15
Gly Arg Ala Pro His Leu Pro Gly Gly Leu Leu Gly Cys Phe Leu Trp
                20                  25                  30
Glu Gln Leu Val His Val Pro Ala Arg Pro Ser Pro Ser Gly Ile Arg
        35                  40                  45
Arg Gly Phe Ser Trp Thr Leu Trp Pro Pro Pro Pro Arg Ala Arg
        50                  55                  60
Val Lys Glu His Pro Ser Pro Leu Val Thr Glu Thr Lys Arg Ser Gly
65                  70                  75                  80
Pro Ser Arg Gln Val Lys Val Gln Asp Ala Ala Ser Pro Arg Leu Leu
                85                  90                  95
Pro Glu Gly Gly Val Glu Pro Pro Arg Ala Pro Asp Arg Ala Ala Ala
                100                 105                 110
Arg Ala Phe Ala Gly Phe Phe Pro Leu His Pro Leu Leu Ile Lys Val
            115                 120                 125
Gly Ser Leu His Asp Asn Arg Ser Glu Arg Gly
            130                 135
```


<210> 2334

<211> 134

<212> PRT

<210> Homo sapiens

<400> 2334
Met Asn Phe Asp His Lys Asn Glu Thr Leu Ser Ile Ser Val Gln Pro
1   5   10   15
Gly Glu Gly Asn Lys Ala Ala Phe Asn Asp Met Arg Ala Leu Ser Gly
                20   25   30
Gly Glu Arg Ser Phe Ser Thr Val Cys Phe Ile Leu Ser Leu Trp Ser
            35   40   45
Ile Ala Glu Ser Pro Phe Arg Cys Leu Asp Glu Phe Asp Val Tyr Met
        50   55   60
Asp Met Val Asn Arg Arg Ile Ala Met Asp Leu Ile Leu Lys Met Ala
65   70   75   80
Asp Ser Gln Arg Phe Arg Gln Phe Ile Leu Leu Thr Pro Gln Ser Met
                85   90   95
Ser Ser Leu Pro Ser Ser Lys Leu Ile Arg Ile Leu Arg Met Ser Asp
                100   105   110
Pro Glu Arg Gly Gln Thr Thr Leu Pro Phe Arg Pro Val Thr Gln Glu
            115   120   125
Glu Asp Asp Asp Gln Arg
        130

<210> 2335
<211> 108
<212> PRT
<213> Homo sapiens

<400> 2335
Met Arg Lys Gly Ile Gly Thr His Arg Ser Asp Asp Asn Gln Ser Pro
1   5   10   15
Leu Met Met Pro Ser Val Thr Gln Gly Ser Pro Gln Pro Ala Gln Pro
                20   25   30
Asp Ser Pro Ala Cys Phe Ser Thr Ala Tyr Leu Gln Gln Ser Asn Cys
        35   40   45
Ile Phe Val Thr Ala Asn Tyr Ile Pro Phe Ala Phe Lys Cys Leu His

```
        50                    55                    60
Phe Ser Tyr Cys Thr Gly Tyr Leu Phe Leu Ser Ala Gln His Pro Val
65                    70                    75                    80
Ser Pro Pro Phe Gly Ser Ser Pro Ser Gln Phe His Val Leu Asn Pro
                     85                    90                    95
Phe Leu Leu Leu Val Lys Ile Ile Phe Cys Phe Val
                    100                   105
```

<210> 2336

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2336

```
Met Gly Pro Leu Thr Arg Trp Ser Arg Ser Asn Glu Val Thr Arg Ala
  1                   5                    10                   15
Ser Pro Asn Pro Ile Cys Trp Cys Asn Tyr Lys Glu Ile Arg Thr Gln
                     20                    25                   30
Thr Cys Thr Glu Gly Arg Pro Ser Thr Ser Gln Gly Gly Arg Pro Pro
              35                    40                    45
Gly Asn Gln Pro Cys Gln Gln Met Met Val Cys Pro Phe Gly Ala Lys
          50                    55                    60
Pro Gln Glu Ala Ser Val Leu Ser Leu Thr Leu Gly Ser Leu Leu Ser
65                    70                    75                    80
Arg Val Arg Trp Leu Gly Leu Ala Cys Trp Arg Leu Thr Gly Pro Trp
                     85                    90                    95
Gly Lys Ser Ser Trp Ser Lys Val Phe Trp Ala Ser Gln His Asn Pro
                    100                   105                   110
Gln Pro Thr Val Gln Ala Val Asp Arg Tyr Arg Ser Lys Ser Ser Gln
              115             .     120                   125
Asp Gln Pro Asn Ser Asp Gln Gln Asn Cys Leu Ala Gly Ser
          130                   135                   140
```

<210> 2337

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2337

Met Ser Ala Cys Pro Ala Gly Thr Ala Gln Arg Pro Arg Pro Gly Arg
1   5   10   15

Thr Leu Arg Val Thr Thr Leu Pro Thr Ala Pro Leu Ala Ile Leu Pro
            20   25   30

Asn His Ser Leu Pro Lys Ile Pro Pro Thr Val Thr Pro His Asp Asn
            35   40   45

Pro Gly Arg Leu Ser Ala Val Ala Pro Ala Pro Gln Pro Arg Ala Leu
        50   55   60

Ser Pro Pro Arg Phe Cys Pro Pro Pro Leu Ser Ser Leu Cys Thr Ser
65   70   75   80

Pro Pro Trp Leu Pro Leu Ser Pro Glu Leu Thr Val Asp Ala Gly Phe
                85   90   95

Phe Gln Thr Pro Leu Gly Asn Thr Glu Trp Lys Arg Gly Ser Val Arg
                100   105   110

Lys Cys Leu Val Glu Cys Arg His Cys Gly Ile
            115   120

<210> 2338

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2338

Met Gly Leu Leu Ala Leu Pro Phe Phe Ala Ile Leu Val Met Asp Arg
1   5   10   15

Gly Trp Pro Arg Gly Thr Trp Leu Pro Val Thr Ser Gly Arg Leu His
            20   25   30

Ala Gly Gln Gly Arg Val Ala Leu Pro Leu Ala Gly Gly Gly Met Arg
            35   40   45

Leu Pro Arg Gly Thr Gln Val Ser Leu His Leu Ala Pro Tyr Pro Val

```
            50                    55                    60
Ser Phe Ala Val Phe Met Cys Ser Asp Ala Leu Pro Leu Gly Ala Ser
65                    70                    75                    80
Lys Leu Gln Cys Pro Leu Pro Pro Gly Arg Gly Asp Pro Gln Ala Pro
                     85                    90                    95
Ser Ala Gln Arg Cys Thr Cys Leu Val Ala Leu Leu Leu Pro Gly Thr
                    100                   105                   110
Val Asp Leu Ser Val Cys Leu Phe
                    115                   120
```

<210> 2339

<211> 273

<212> PRT

<213> Homo sapiens

<400> 2339

```
Met Glu Gly Glu Ile Trp Gly Leu Ala Thr His Pro Ser Lys Asp Leu
 1               5                    10                    15
Phe Ile Ser Ala Ser Asn Asp Gly Thr Ala Arg Ile Trp Asp Leu Ala
                20                    25                    30
Asp Lys Lys Leu Leu Asn Lys Val Ser Leu Gly His Ala Ala Arg Cys
           35                    40                    45
Ala Ala Tyr Ser Pro Asp Gly Glu Met Val Ala Ile Gly Met Lys Asn
        50                    55                    60
Gly Glu Phe Val Ile Leu Leu Val Asn Ser Leu Lys Val Trp Gly Lys
65                    70                    75                    80
Lys Arg Asp Arg Lys Ser Ala Ile Gln Asp Ile Arg Ile Ser Pro Asp
                85                    90                    95
Asn Arg Phe Leu Ala Val Gly Ser Ser Glu His Thr Val Asp Phe Tyr
                100                   105                   110
Asp Leu Thr Gln Gly Thr Asn Leu Asn Arg Ile Gly Tyr Cys Lys Asp
                115                   120                   125
Ile Pro Ser Phe Val Ile Gln Met Asp Phe Ser Ala Asp Gly Lys Tyr
            130                   135                   140
Ile Gln Val Ser Thr Gly Ala Tyr Lys Arg Gln Val His Glu Val Pro
```

```
145                   150                   155                   160
Leu Gly Lys Gln Val Thr Glu Ala Val Val Ile Glu Lys Ile Thr Trp
                165                   170                   175
Ala Ser Trp Thr Ser Val Leu Gly Asp Glu Val Ile Gly Ile Trp Pro
                180                   185                   190
Arg Asn Ala Asp Lys Ala Asp Val Asn Cys Ala Cys Val Thr His Ala
            195                   200                   205
Gly Leu Asn Ile Val Thr Gly Asp Asp Phe Gly Leu Val Lys Leu Phe
        210                   215                   220      .
Asp Phe Pro Cys Thr Glu Lys Phe Ala Lys His Lys Arg Tyr Phe Gly
225                   230                   235                   240
His Ser Ala His Val Thr Asn Ile Arg Phe Ser Tyr Asp Asp Lys Tyr
                245                   250                   255
Val Val Ser Thr Gly Gly Asp Asp Cys Ser Val Phe Val Trp Arg Cys
                260                   265                   270
Leu
```

<210> 2340

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2340

```
Met Gln Gln Asn Glu Ala Ala Gln Gln Glu Val Pro Phe Gly Pro Gln
 1               5                  10                  15
Thr Thr Ala Val Leu Trp Asp His Lys Gly Gly Val Ala His Ala Val
                20                  25                  30
Asn His Gln Ala Asn Gly Ser Val His Leu Leu His Gln Asp Gly Val
            35                  40                  45
Pro Leu Val Val Ile His Met Ala Leu Gly Gly Lys Val Ser Ile Glu
        50                  55                  60
Thr Thr Gln Thr Val Val Phe Gln Leu Gly His Ser Thr Gly Gln Leu
65                  70                  75                  80
Gln Arg Lys Ser Lys Gln Pro Ser Ala Lys Pro Arg Ser Pro Cys Lys
```

```
                    85                  90                  95
Pro Ala Lys Arg Leu Pro Val
                100
```

<210> 2341
<211> 127
<212> PRT
<213> Homo sapiens

<400> 2341

```
Met Gly Val Pro Arg Ser Phe Arg Gly Ser Pro Arg Val Pro Pro Pro
 1               5                  10                  15
Gly Pro Pro Arg Trp Thr Ser Leu Arg Pro Leu Pro Ser Leu Asp His
                20                  25                  30
Ile Ser Ala Pro Thr Val Pro Asp Ile Leu Ala Leu His Ala Thr Ser
            35                  40                  45
Arg Pro Met Ile Met Pro Gln Phe Pro Ser Pro Leu Arg Gln Pro Ser
        50                  55                  60
Pro Cys Arg Leu Pro Pro Ser Glu Arg Val Gln Leu Gln Leu Ser Pro
65                  70                  75                  80
Gly Ser Leu Pro Ala Ser Gly Pro His Leu Thr Pro Ala Ser Arg Phe
                85                  90                  95
Pro Leu Pro Ala Arg Leu Asn Pro Ala Ala Ser Ala Pro Cys Leu Val
                100                 105                 110
Pro Ser Ala Trp Pro Leu Pro Pro Ala Ala Gly Ser Gly Arg Arg
                115                 120                 125
```


<210> 2342
<211> 289
<212> PRT
<213> Homo sapiens

<400> 2342

```
Met Gly Cys Ile Gly Ser Arg Thr Val Gly Asn Glu Val Ile Ala Val
```

```
     1                    5                   10                   15
    Asp Trp Lys Gly Leu Lys Asp Val Asp Gln Ile Asn Met Asp Ser Thr
                    20                   25                   30
    Ser Ser Leu His Gly Ser Ser Leu His Arg Pro Ser Thr Glu Gln Thr
                    35                   40                   45
    Arg Thr Asp Phe Ser Trp Asp Gly Ile Asn Leu Ser Met Glu Asp Thr
            50                   55                   60
    Thr Ser Ile Leu Pro Lys Leu Lys Arg Asn Ser Asn Ala Tyr Gly Ile
    65                   70                   75                   80


    Gly Ala Leu Ala Lys Ser Ser Phe Ser Gly Ile Ser Arg Ser Met Lys
                    85                   90                   95
    Asp His Val Thr Lys Pro Thr Ala Met Gly Gln Gly Arg Val Ala His
                    100                  105                  110
    Met Ile Glu Trp Gln Gly Trp Gly Lys Thr Pro Ala Val Gln Pro Gln
            115                  120                  125
    His Ser His Glu Ser Val Arg Arg Asp Thr Asp Ala Tyr Ser Asp Leu
            130                  135                  140
    Ser Asp Gly Glu Lys Glu Ala Arg Phe Leu Ala Gly Val Met Glu Gln
    145                  150                  155                  160
    Phe Ala Ile Ser Glu Ala Thr Leu Met Ala Trp Ser Ser Met Asp Gly
                    165                  170                  175
    Glu Asp Met Ser Val Asn Ser Thr Gln Glu Pro Leu Gly Cys Asn Tyr
                    180                  185                  190
    Ser Asp Asn Tyr Gln Glu Leu Met Asp Ser Gln Asp Ala Leu Ala Gln
                    195                  200                  205
    Ala Pro Met Asp Gly Leu Thr Leu Thr Cys Pro Arg Val Cys Thr Val
            210                  215                  220
    Trp Gly Arg Gln Met Pro Gly Lys Pro Ala Ile Ser Pro Ser Leu Pro
    225                  230                  235                  240
    Leu Arg Pro Gln Asp Pro Ile Leu Gly Leu His Leu Met Thr His Asn
                    245                  250                  255
    Pro Ala Cys Met Lys Trp Asp Leu Pro Asn Gln Leu Gln Asp Thr Leu
                    260                  265                  270
    Leu Trp Ser Leu His Leu Cys Trp Gly Glu Thr Leu Thr Gly Leu Arg
                    275                  280                  285
```

Gly

<210> 2343

<211> 118

<212> PRT

<213> Homo sapiens

<400> 2343

```
Met Cys Gln His Glu Gly Arg Leu Gln Phe Ile His Glu Arg Gln Glu
 1               5                  10                  15
Lys Glu Asn Ser Asn Leu Glu Ser Ser Val Gly His Gln Ala Leu Thr
                20                  25                  30
Phe Pro His Leu Ala His Tyr Pro Val Lys Ala Val Ala Ala His Leu
            35                  40                  45
Val Ala Leu His Gly Thr Leu Pro Lys Ala Ser Ser Ser Ile Leu Gly
        50                  55                  60
Leu Gln Arg Ile Gln Val Pro Ser Ile Gln Trp Gly Ser Ser Thr Ser
 65                  70                  75                  80
Glu Val Pro Leu Pro Pro Ser Ser Ala Ser Cys Leu Ala Ile Pro Ser
                85                  90                  95
Ile Pro Phe Gly Asp Asp Tyr Leu Glu Asn Lys Glu Arg Tyr Gly Met
                100                 105                 110
Gly Phe Pro Ile Val Cys
            115
```

<210> 2344

<211> 1005

<212> PRT

<213> Homo sapiens

<400> 2344

```
Met Glu Lys Gln Arg Ala Leu Val Ala Ala Lys Asp Gly Asp Val Ala
 1               5                  10                  15
```

Thr Leu Glu Arg Leu Leu Glu Ala Gly Ala Leu Gly Pro Gly Ile Thr
            20   25   30

Asp Ala Leu Gly Ala Gly Leu Val His His Ala Thr Arg Ala Gly His
            35   40   45

Leu Asp Cys Val Lys Phe Leu Val Gln Arg Ala Gln Leu Pro Gly Asn
        50   55   60

Gln Arg Ala His Asn Gly Ala Thr Pro Ala His Asp Ala Ala Ala Thr
65   70   75   80

Gly Ser Leu Ala Glu Leu Cys Trp Leu Val Arg Glu Gly Gly Cys Gly
                85   90   95

Leu Gln Asp Gln Asp Ala Ser Gly Val Ser Pro Leu His Leu Ala Ala
            100   105   110

Arg Phe Gly His Pro Val Leu Val Glu Trp Leu Leu His Glu Gly His
            115   120   125

Ser Ala Thr Leu Glu Thr Arg Glu Gly Ala Arg Pro Leu His His Ala
        130   135   140

Ala Val Ser Gly Asp Leu Thr Cys Leu Lys Leu Leu Thr Ala Ala His
145   150   155   160

Gly Ser Ser Val Asn Arg Arg Thr Arg Ser Gly Ala Ser Pro Leu Tyr
                165   170   175

Leu Ala Cys Gln Glu Gly His Leu His Leu Ala Gln Phe Leu Val Lys
            180   185   190

Asp Cys Gly Ala Asp Val His Leu Arg Ala Leu Asp Gly Met Ser Ala
            195   200   205

Leu His Ala Ala Ala Ala Arg Gly His Tyr Ser Leu Val Val Trp Leu
        210   215   220

Val Thr Phe Thr Asp Ile Gly Leu Thr Ala Arg Asp Asn Glu Gly Ala
225   230   235   240

Thr Ala Leu His Phe Ala Ala Arg Gly Gly His Thr Pro Ile Leu Asp
                245   250   255

Arg Leu Leu Leu Met Gly Thr Pro Ile Leu Arg Asp Ser Trp Gly Gly
            260   265   270

Thr Pro Leu His Asp Ala Ala Glu Asn Gly Gln Met Glu Cys Cys Gln
            275   280   285

Thr Leu Val Ser His His Val Asp Pro Ser Leu Arg Asp Glu Asp Gly
        290   295   300

Tyr Thr Ala Ala Asp Leu Ala Glu Tyr His Gly His Arg Asp Cys Ala
305   310   315   320

Gln Tyr Leu Arg Glu Val Ala Gln Pro Val Pro Leu Leu Met Thr Pro
                325   330   335

Pro Pro Pro Pro Phe Pro Pro Pro Pro Leu Leu Ala Thr Arg Arg Ser
                340   345   350

Leu Glu Asp Gly Arg Arg Gly Gly Pro Gly Pro Gly Asn Pro Ser Pro
                355   360   365

Met Ser Leu Ser Pro Ala Trp Pro Gly His Pro Asp Gln Pro Leu Pro
        370   375   380

Arg Glu Gln Met Thr Ser Pro Ala Pro Pro Arg Ile Ile Thr Ser Ala
385   390   395   400

Thr Ala Asp Pro Glu Gly Thr Glu Thr Ala Leu Ala Gly Asp Thr Ser
                405   410   415

Asp Gly Leu Ala Ala Leu Gln Leu Asp Gly Leu Pro Ser Gly Asp Ile
                420   425   430

Asp Gly Leu Val Pro Thr Arg Asp Glu Arg Gly Gln Pro Ile Pro Glu
                435   440   445

Trp Lys Arg Gln Val Met Val Arg Lys Leu Gln Ala Arg Leu Gly Ala
        450   455   460

Glu Ser Ser Ala Glu Ala Gln Asp Asn Gly Gly Ser Ser Gly Pro Thr
465   470   475   480

Glu Gln Ala Ala Trp Arg Tyr Ser Gln Thr His Gln Ala Ile Leu Gly
                485   490   495

Pro Phe Gly Glu Leu Leu Thr Glu Asp Asp Leu Val Tyr Leu Glu Lys
                500   505   510

Gln Ile Ala Asp Leu Gln Leu Arg Arg Arg Cys Gln Glu Tyr Glu Ser
                515   520   525

Glu Leu Gly Arg Leu Ala Ala Glu Leu Gln Ala Leu Leu Pro Glu Pro
        530   535   540

Leu Val Ser Ile Thr Val Asn Ser His Phe Leu Pro Arg Ala Pro Gly
545   550   555   560

Leu Glu Val Glu Glu Ala Ser Ile Pro Ala Ala Glu Pro Ala Gly Ser
                565   570   575

Ala Glu Ala Ser Glu Val Ala Pro Gly Val Gln Pro Leu Pro Phe Trp
                580   585   590

Cys Ser His Ile Ser Arg Leu Val Arg Ser Leu Ser Leu Leu Leu Lys

      595   600   605

Gly Met His Gly Leu Val Gln Gly Asp Glu Lys Pro Ser Thr Arg Pro
    610   615   620

Leu Gln Asp Thr Cys Arg Glu Ala Ser Ala Ser Pro Pro Arg Ser Glu
625   630   635   640

Ala Gln Arg Gln Ile Gln Glu Trp Gly Val Ser Val Arg Thr Leu Arg
       645   650   655

Gly Asn Phe Glu Ser Ala Ser Gly Pro Leu Cys Gly Phe Asn Pro Gly
       660   665   670

Pro Cys Glu Pro Gly Ala Gln His Arg Gln Cys Leu Ser Gly Cys Trp
       675   680   685

Pro Ala Leu Pro Lys Pro Arg Ser Gly Leu Ala Ser Gly Glu Pro Arg
    690   695   700

Pro Gly Asp Thr Glu Glu Ala Ser Asp Ser Gly Ile Ser Cys Glu Glu
705   710   715   720

Val Pro Pro Glu Ala Gly Ala Ala Ala Gly Pro Asp Leu Ala Ser Leu
          725   730   735

Arg Lys Glu Arg Ile Ile Met Leu Phe Leu Ser His Trp Arg Arg Ser
       740   745   750

Ala Tyr Thr Pro Ala Leu Lys Thr Ala Ala Cys Arg Thr Leu Gly Ala
       755   760   765

Arg His Ala Gly Leu Arg Gly Gln Glu Ala Ala Arg Ser Pro Gly Pro
    770   775   780

Pro Ser Pro Pro Ser Glu Gly Pro Arg Leu Gly His Leu Trp Gln Gln
785   790   795   800

Arg Ser Thr Ile Thr His Leu Leu Gly Asn Trp Lys Ala Ile Met Ala
          805   810   815

His Val Pro Ala Arg Gln Leu Arg Arg Leu Ser Arg Gln Pro Arg Gly
       820   825   830

Ala Leu Ser Pro Glu Gln Phe Leu Pro His Val Asp Gly Ala Pro Val
       835   840   845

Pro Tyr Ser Ser Leu Ser Leu Asp Leu Phe Met Leu Gly Tyr Phe Gln
    850   855   860

Leu Leu Glu Cys Asp Leu Pro Ala Glu Glu Arg Lys Leu Arg His Leu

```
865                     870                     875                     880
Leu Cys Phe Glu Val Phe Glu His Leu Gly Thr His Gly Trp Glu Ala
                    885               890               895
Val Arg Ala Phe His Lys Ala Val Thr Asp Glu Val Ala Ala Gly Arg
                900               905               910
Arg Ala Trp Thr Asp Gly Phe Glu Asp Ile Lys Ala Arg Phe Phe Gly
            915               920               925
Ser Ser Gln Arg Pro Ala Trp Asp Thr Glu Pro Gly Arg Lys Ser Gly
        930               935               940
Leu Thr Leu Leu Gly Pro Leu Pro His Ala Thr Val Pro Cys Ser Gly
945               950               955               960
Pro Glu Pro Thr Ala Gln Arg Leu Gly Ser Arg Ser Gln Gln Gly Ser
                965                 \   970               975
Phe Asn Gly Glu Asp Ile Cys Gly Tyr Ile Asn Arg Ser Phe Ala Phe
            980               985               990
Trp Lys Glu Lys Glu Ala Glu Met Phe Asn Phe Gly Glu
        995               1000              1005
```

<210> 2345

<211> 145

<212> PRT

<213> Homo sapiens

<400> 2345

```
Met Gly Pro Trp Pro Arg Asp Trp Leu Gly Lys Gly Trp Arg Leu Gly
1                   5                   10                  15
Ser Cys Glu Ala Arg Ala Gly Ala Lys Glu Val Ser Val Ile Arg His
                20                  25                  30
Gly Ala Pro Asn Pro Ala Gln Ser His Leu His Val Gln Ala Arg Ala
            35                  40                  45
Gln Val His Ser Glu Asp Gly His Ser Leu Pro Pro Val Val Asp Gly
        50              .   55                  60
Glu Asp Glu Val Leu Ser Leu Leu Val Phe Val Gln Asp Ser Gln Glu
65                  70                  75                  80
Cys Cys Arg Gln Ala Val Gln Gly Arg Gln Gly Arg Gly Val Thr Trp
```

```
                     85                    90                    95
Gly Leu Gly Leu Pro Ser Tyr His Leu Arg Thr Leu Leu Ser Pro Val
                100                   105                   110
Cys Val Pro Ala Arg Asp Gln Arg Ala Pro Arg Lys Cys Cys Glu Ala
                115                   120                   125
Val Leu Ala Cys Pro Leu Val Glu Thr Leu Val Thr Thr Leu Leu Thr
            130                   135                   140
Arg
145
```

<210> 2346

<211> 173

<212> PRT

<213> Homo sapiens

<400> 2346

```
Met Met Cys Met Met Thr Gly Ser Asp Val Arg Asp Asp Arg Leu Arg
  1               5                    10                   15
Arg Cys Val Ala Thr Gly Ser Asp His Val Cys Asp Asp Arg Leu Arg
                 20                   25                   30
Cys Ala Leu Met Thr Gly Ser Asp Val Cys Asp Asp Trp Leu Arg Cys
             35                   40                   45
Ser Leu Met Thr Ser Ser Asp Val Cys Asp Asp Pro Leu Ser Ile Gln
         50                   55                   60
Cys Ala Ile Ala Leu Ala Arg Ser Arg Ser Arg Leu Pro Thr Arg Ser
 65                   70                   75                   80
Gln Leu Pro Ala Val Pro Ala Ser Ala Ala Arg Trp Arg Gln Gly Pro
                 85                   90                   95
His Glu Arg Arg Ala Phe Pro Cys Gly Cys Ser Leu Ala Gly Ser Pro
                100                  105                  110
Leu Arg Gly Leu Leu Arg Pro Ala Ser Pro Ser Gln Cys Ile Val Thr
             115                  120                  125
Thr Thr Leu Leu Ser Ser Asn Lys Gln Val Arg Cys Arg Trp Lys Cys
         130                  135                  140
Gly Val Gly Val Trp Val Gly Glu Val Pro Gln Ala Ser Leu Ser Pro
```

145   150   155   160
Cys Ala Ala Ala Gly Gly Tyr Ala Gly Gly Thr Glu Leu
                    165   170

<210> 2347
<211> 116
<212> PRT
<213> Homo sapiens

<400> 2347
Met Gly Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser
  1   5   10   15
Gly Asp Leu Pro Leu Leu Ala Ser Gln Ser Ala Gly Ile Thr Val Met
                    20   25   30
Ser His Arg Thr Trp Pro Gln Thr Phe Phe Phe Leu Ser Lys Glu Ile
            35   40   45
Val Ser Trp Ile Thr Ser His Lys Ala Ser Gln Tyr Val Lys Gln Ile
        50   55   60
Ile Val Leu Glu Val Thr Thr Trp Asn Ser Val His Gly Asp Ser Ser
 65   70   75   80
Pro Cys Thr Pro His Thr Glu Thr Leu Gln Leu Met Leu Pro Thr Ser
                    85   90   95
Val Ser Lys Glu Thr Leu Asp Lys Ser Ser Pro Phe Ile His Arg Trp
                    100   105   110
Arg His Tyr Cys
            115

<210> 2348
<211> 122
<212> PRT
<213> Homo sapiens

<400> 2348
Met Thr Cys Ser Lys Thr Lys Thr Asn Pro Thr Phe Lys Cys Lys Thr

```
  1                 5                    10                    15
Asp Phe Lys Ala Ile Phe Phe Phe Leu Phe Phe Ile Glu Thr Glu Ser
                20                    25                    30
Arg Ser Val Ala Gln Ala Gly Val Gln Trp Cys Asp Leu Ser Ser Leu
                35                    40                    45
Gln Pro Pro Pro Gly Phe Lys Arg Phe Ser Cys Leu Ser Leu Pro
        50                    55                    60
Ser Ser Trp Asp Tyr Arg Cys Pro Pro Pro Arg Leu Val Thr Phe Cys
65                    70                    75                    80
Ile Phe Ser Arg Asp Arg Val Ser Ser Cys Trp Pro Gly Gly Leu Lys
                85                    90                    95
Leu Leu Thr Ser Gly Asp Leu Pro Ala Ser Ala Ser Gln Ser Ala Gly
                100                   105                   110
Val Thr Gly Met Ser His His Thr Trp Pro
                115                   120
```

<210> 2349

<211> 1163

<212> PRT

<213> Homo sapiens

<400> 2349

```
Met Glu Arg Gly Ala Arg Glu Met Ala Ala Pro Gly Asp Cys Pro Ala
  1                 5                    10                    15
Gly Lys Ala Ala Gly Thr Ser Arg Pro Thr Arg Ser Leu Ser Thr Ala
                20                    25                    30
Gln Leu Val Gln Pro Ser Gly Gly Leu Gln Ala Ser Val Ile Ser Asn
                35                    40                    45
Ile Val Leu Met Lys Gly Gln Ala Lys Gly Leu Gly Phe Ser Ile Val
        50                    55                    60
Gly Gly Lys Asp Ser Ile Tyr Gly Pro Ile Gly Ile Tyr Val Lys Thr
65                    70                    75                    80
Ile Phe Ala Gly Gly Ala Ala Ala Ala Asp Gly Arg Leu Gln Glu Gly
                85                    90                    95
Asp Glu Ile Leu Glu Leu Asn Gly Glu Ser Met Ala Gly Leu Thr His
```

```
                  100                    105                    110
Gln Asp Ala Leu Gln Lys Phe Lys Gln Ala Lys Lys Gly Leu Leu Thr
            115                    120                    125
Leu Thr Val Arg Thr Arg Leu Thr Ala Pro Pro Ser Leu Cys Ser His
            130                    135                    140
Leu Ser Pro Pro Leu Cys Arg Ser Leu Ser Ser Ser Thr Cys Ile Thr
145                    150                    155                    160
Lys Asp Ser Ser Ser Phe Ala Leu Glu Ser Pro Ser Ala Pro Ile Ser
                  165                    170                    175
Thr Ala Lys Pro Asn Tyr Arg Ile Met Val Glu Val Ser Leu Gln Lys
                  180                    185                    190
Glu Ala Gly Val Gly Leu Gly Ile Gly Leu Cys Ser Val Pro Tyr Phe
            195                    200                    205
Gln Cys Ile Ser Gly Ile Phe Val His Thr Leu Ser Pro Gly Ser Val
      210                    215                    220
Ala His Leu Asp Gly Arg Leu Arg Cys Gly Asp Glu Ile Val Glu Ile
225                    230                    235                    240
Ser Asp Ser Pro Val His Cys Leu Thr Leu Asn Glu Val Tyr Thr Ile
                  245                    250                    255
Leu Ser His Cys Asp Pro Gly Pro Val Pro Ile Ile Val Ser Arg His
            260                    265                    270
Pro Asp Pro Gln Val Ser Glu Gln Gln Leu Lys Glu Ala Val Ala Gln
            275                    280                    285
Ala Val Glu Asn Thr Lys Phe Gly Lys Glu Arg His Gln Trp Ser Leu
      290                    295                    300
Glu Gly Val Lys Arg Leu Glu Ser Ser Trp His Gly Arg Pro Thr Leu
305                    310                    315                    320
Glu Lys Glu Arg Glu Lys Asn Ser Ala Pro Pro His Arg Arg Ala Gln
                  325                    330                    335
Lys Val Met Ile Arg Ser Ser Ser Asp Ser Ser Tyr Met Ser Gly Ser
                  340                    345                    350
Pro Gly Gly Ser Pro Gly Ser Gly Ser Ala Glu Lys Pro Ser Ser Asp
            355                    360                    365
Val Asp Ile Ser Thr His Ser Pro Ser Leu Pro Leu Ala Arg Glu Pro
      370                    375                    380
Val Val Leu Ser Ile Ala Ser Ser Arg Leu Pro Gln Glu Ser Pro Pro
```

```
385                    390                    395                    400
Leu Pro Glu Ser Arg Asp Ser His Pro Pro Leu Arg Leu Lys Lys Ser
                 405                    410                    415
Phe Glu Ile Leu Val Arg Lys Pro Met Ser Ser Lys Pro Lys Pro Pro
                 420                    425                    430
Pro Arg Lys Tyr Phe Lys Ser Asp Ser Asp Pro Gln Lys Ser Leu Glu
             435                    440                    445
Glu Arg Glu Asn Ser Ser Cys Ser Ser Gly His Thr Pro Pro Thr Cys
         450                    455                    460
Gly Gln Glu Ala Arg Glu Leu Leu Pro Leu Leu Leu Pro Gln Glu Asp
465                    470                    475                    480
Thr Ala Gly Arg Ser Pro Ser Ala Ser Ala Gly Cys Pro Gly Pro Gly
                 485                    490                    495
Ile Gly Pro Gln Thr Lys Ser Ser Thr Glu Gly Glu Pro Gly Trp Arg
             500                    505                    510
Arg Ala Ser Pro Val Thr Gln Thr Ser Pro Ile Lys His Pro Leu Leu
         515                    520                    525
Lys Arg Gln Ala Arg Met Asp Tyr Ser Phe Asp Thr Thr Ala Glu Asp
         530                    535                    540
Pro Trp Val Arg Ile Ser Asp Cys Ile Lys Asn Leu Phe Ser Pro Ile
545                    550                    555                    560
Met Ser Glu Asn His Gly His Met Pro Leu Gln Pro Asn Ala Ser Leu
                 565                    570                    575
Asn Glu Glu Glu Gly Thr Gln Gly His Pro Asp Gly Thr Pro Pro Lys
             580                    585                    590
Leu Asp Thr Ala Asn Gly Thr Pro Lys Val Tyr Lys Ser Ala Asp Ser
             595                    600                    605
Ser Thr Val Lys Lys Gly Pro Pro Val Ala Pro Lys Pro Ala Trp Phe
         610                    615                    620
Arg Gln Ser Leu Lys Gly Leu Arg Asn Arg Ala Ser Asp Pro Arg Gly
625                    630                    635                    640
Leu Pro Asp Pro Ala Leu Ser Thr Gln Pro Ala Pro Ala Ser Arg Glu
                 645                    650                    655
His Leu Gly Ser His Ile Arg Ala Ser Ser Ser Ser Ser Ser Ile Arg
             660                    665                    670
Gln Arg Ile Ser Ser Phe Glu Thr Phe Gly Ser Ser Gln Leu Pro Asp
```

```
                675                    680                    685
        Lys Gly Ala Gln Arg Leu Ser Leu Gln Pro Ser Ser Gly Glu Ala Ala
            690                    695                    700
        Lys Pro Leu Gly Lys His Glu Glu Gly Arg Phe Ser Gly Leu Leu Gly
        705                    710                    715                    720
        Arg Gly Ala Ala Pro Thr Leu Val Pro Gln Gln Pro Glu Gln Val Leu
                            725                    730                    735
        Ser Ser Gly Ser Pro Ala Ala Ser Glu Ala Arg Asp Pro Gly Val Ser
                            740                    745                    750
        Glu Ser Pro Pro Pro Gly Arg Gln Pro Asn Gln Lys Thr Leu Pro Pro
                    755                    760                    765
        Gly Pro Asp Pro Leu Leu Arg Leu Leu Ser Thr Gln Ala Glu Glu Ser
                    770                    775                    780
        Gln Gly Pro Val Leu Lys Met Pro Ser Gln Arg Ala Arg Ser Phe Pro
        785                    790                    795                    800
        Leu Thr Arg Ser Gln Ser Cys Glu Thr Lys Leu Leu Asp Glu Lys Thr
                            805                    810                    815
        Ser Lys Leu Tyr Ser Ile Ser Ser Gln Val Ser Ser Ala Val Met Lys
                    820                    825                    830
        Ser Leu Leu Cys Leu Pro Ser Ser Ile Ser Cys Ala Gln Thr Pro Cys
                    835                    840                    845
        Ile Pro Lys Glu Gly Ala Ser Pro Thr Ser Ser Ser Asn Glu Asp Ser
                    850                    855                    860
        Ala Ala Asn Gly Ser Ala Glu Thr Ser Ala Leu Asp Thr Gly Phe Ser
        865                    870                    875                    880
        Leu Asn Leu Ser Glu Leu Arg Glu Tyr Thr Glu Gly Leu Thr Glu Ala
                            885                    890                    895
        Lys Glu Asp Asp Asp Gly Asp His Ser Ser Leu Gln Ser Gly Gln Ser
                    900                    905                    910
        Val Ile Ser Leu Leu Ser Ser Glu Glu Leu Lys Lys Leu Ile Glu Glu
                    915                    920                    925
        Val Lys Val Leu Asp Glu Ala Thr Leu Lys Gln Leu Asp Gly Ile His
            930                    935                    940
        Val Thr Ile Leu His Lys Glu Glu Gly Ala Gly Leu Gly Phe Ser Leu
        945                    950                    955                    960
        Ala Gly Gly Ala Asp Leu Glu Asn Lys Val Ile Thr Val His Arg Val
```

                    965   970   975
Phe Pro Asn Gly Leu Ala Ser Gln Glu Gly Thr Ile Gln Lys Gly Asn
                    980   985   990
Glu Val Leu Ser Ile Asn Gly Lys Ser Leu Lys Gly Thr Thr His His
              995   1000   1005
Asp Ala Leu Ala Ile Leu Arg Gln Ala Arg Glu Pro Arg Gln Ala Val
         1010   1015   1020
Ile Val Thr Arg Lys Leu Thr Pro Glu Ala Met Pro Asp Leu Asn Ser
1025   1030   1035   1040
Ser Thr Asp Ser Ala Ala Ser Ala Ser Ala Ala Ser Asp Val Ser Val
                   1045   1050   1055
Glu Ser Thr Glu Ala Thr Val Cys Thr Val Thr Leu Glu Lys Met Ser
              1060   1065   1070
Ala Gly Leu Gly Phe Ser Leu Glu Gly Gly Lys Gly Ser Leu His Gly
         1075   1080   1085
Asp Lys Pro Leu Thr Ile Asn Arg Ile Phe Lys Gly Ala Ala Ser Glu
    1090   1095   1100
Gln Ser Glu Thr Val Gln Pro Gly Asp Glu Ile Leu Gln Leu Gly Gly
1105   1110   1115   1120
Thr Ala Met Gln Gly Leu Thr Arg Phe Glu Ala Trp Asn Ile Ile Lys
                   1125   1130   1135
Ala Leu Pro Asp Gly Pro Val Thr Ile Val Ile Arg Arg Lys Ser Leu
         1140   1145   1150
Gln Ser Lys Glu Thr Thr Ala Ala Gly Asp Ser
    1155   1160

<210> 2350

<211> 306

<212> PRT

<213> Homo sapiens

<400> 2350

Met Ser Asn Lys Arg Ser Asn Ser Phe Arg Gln Ala Ile Leu Gln Gly
    1   5   10   15
Asn Arg Arg Leu Ser Ser Lys Ala Leu Leu Glu Glu Lys Gly Leu Ser

                20   25   30
Leu Ser Gln Arg Leu Ile Arg His Val Ala Tyr Glu Thr Leu Pro Arg
            35   40   45
Glu Ile Asp Arg Lys Trp Tyr Tyr Asp Ser Tyr Thr Cys Cys Pro Pro
        50   55   60
Pro Trp Phe Met Ile Thr Val Thr Leu Leu Glu Val Ala Phe Phe Leu
    65   70   75   80
Tyr Asn Gly Val Ser Leu Gly Gln Phe Val Leu Gln Val Thr His Pro
                    85   90   95
Arg Tyr Leu Lys Asn Ser Leu Val Tyr His Pro Gln Leu Arg Ala Gln
                100   105   110
Val Trp Arg Tyr Leu Thr Tyr Ile Phe Met His Ala Gly Ile Glu His
                115   120   125
Leu Gly Leu Asn Val Val Leu Gln Leu Leu Val Gly Val Pro Leu Glu
        130   135   140
Met Val His Gly Ala Thr Arg Ile Gly Leu Val Tyr Val Ala Gly Val
145   150   155   160
Val Ala Gly Ser Leu Ala Val Ser Val Ala Asp Met Thr Ala Pro Val
                165   170   175
Val Gly Ser Ser Gly Gly Val Tyr Ala Leu Val Ser Ala His Leu Ala
                180   185   190
Asn Ile Val Met Asn Trp Ser Gly Met Lys Cys Gln Phe Lys Leu Leu
                195   200   205
Arg Met Ala Val Ala Leu Ile Cys Met Ser Met Glu Phe Gly Arg Ala
        210   215   220
Val Trp Leu Arg Phe His Pro Ser Ala Tyr Pro Pro Cys Pro His Pro
225   230   235   240
Ser Phe Val Ala His Leu Gly Gly Val Ala Val Gly Ile Thr Leu Gly
                245   250   255
Val Val Val Leu Arg Asn Tyr Glu Gln Arg Leu Gln Asp Gln Ser Leu
                260   265   270
Trp Trp Ile Phe Val Ala Met Tyr Thr Val Phe Val Leu Phe Ala Val
        275   280   285
Phe Trp Asn Ile Phe Ala Tyr Thr Leu Leu Asp Leu Lys Leu Pro Pro
        290   295   300
Pro Pro

305

<210> 2351

<211> 178

<212> PRT

<213> Homo sapiens

<400> 2351

```
Met Val Gly Phe Pro Asn Ala Gly Lys Ser Ser Leu Leu Arg Ala Ile
1               5                   10                  15
Ser Asn Ala Arg Pro Ala Val Ala Ser Tyr Pro Phe Thr Thr Leu Lys
                20                  25                  30
Pro His Val Gly Ile Val His Tyr Glu Gly His Leu Gln Ile Ala Val
            35                  40                  45
Ala Asp Ile Pro Gly Ile Ile Arg Gly Ala His Gln Asn Arg Gly Leu
        50                  55                  60
Gly Ser Ala Phe Leu Arg His Ile Glu Arg Cys Arg Phe Leu Leu Phe
65                  70                  75                  80
Val Val Asp Leu Ser Gln Pro Glu Pro Trp Thr Gln Val Asp Asp Leu
                85                  90                  95
Lys Tyr Glu Leu Glu Met Tyr Glu Lys Gly Leu Ser Ala Arg Pro His
                100                 105                 110
Ala Ile Val Ala Asn Lys Ile Asp Leu Pro Glu Ala Gln Ala Asn Leu
            115                 120                 125
Ser Gln Leu Arg Asp His Leu Gly Gln Glu Val Ile Val Leu Ser Ala
        130                 135                 140
Leu Thr Gly Glu Asn Leu Glu Gln Leu Leu Leu His Leu Lys Val Leu
145                 150                 155                 160
Tyr Asp Ala Tyr Ala Glu Ala Glu Leu Gly Gln Gly Arg Gln Pro Leu
                165                 170                 175
Arg Trp
```

<210> 2352

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2352

Met Tyr Gly Ala Thr Gln Ser Gln Ser Asp Met Cys Asp Gln Asp Gln

1   5   10   15

Cys Ile Gln Ser Thr Lys Phe Val Leu Gln Ala Ala Ala Thr Pro Leu

            20   25   30

Leu Gln Ser Glu Pro Ser Leu Thr Ser Asp Glu Leu His Leu Pro Gly

        35   40   45

Lys Pro Gly Leu Gly Thr Pro Cys Ala Ser Leu Thr Leu Gly Pro Pro

    50   55   60

Thr Pro Pro Ala Ser Met Pro Asn Leu Ala Glu Ala Thr Leu Ala Asp

65   70   75   80

Val Met Pro Arg Lys Asp Glu His Met Gly His Gln Phe Leu Thr Pro

            85   90   95

Asp Glu Ala Pro Ser Pro Pro Arg Leu Leu Ala Ala Gly Ser Pro Leu

            100   105   110

Ala His Ser Arg Thr Met His Val Leu Gly Leu Ala Ser Gln Asp Ser

        115   120   125

Leu His Glu Asp Ser Val Arg Gly Leu Val Lys Leu Ser Ser Val

    130   135   140

<210> 2353

<211> 171

<212> PRT

<213> Homo sapiens

<400> 2353

Met Ala Phe Gln Ser Leu Asp Ile Phe Ile Ile Asn Thr Asn Ile Pro

1   5   10   15

Leu His Lys Gly Thr Ser Ser Asn Leu Arg Leu Glu Gly Pro Pro Ala

            20   25   30

Tyr Val Phe Leu Leu Ile Leu Ser Tyr Leu Pro Ser Ser Pro His Asn

```
                35                    40                    45
Ser His Ser Val Thr Lys Ser Arg Arg Phe Tyr Leu Leu Asn Leu Ser
            50                    55                    60
Tyr Pro Ser Leu Leu Ser His Ser Pro Asp Thr Thr Ile Asn Gln Ala
65                    70                    75                    80
Thr Ile Thr Ser Ser Cys Leu Thr Ala Asn Ala Ser Arg Leu Ala Ser
                    85                    90                    95
Ala Phe Pro Trp Pro Cys Asp Asn Leu His Ser Ser Gln Gly Pro Lys
                    100                   105                   110
Gln Ser Leu Gln Lys Val His Pro Asn Arg Ser Leu Asn Phe Gln Trp
            115                   120                   125
Leu Pro Leu Leu Cys Gly Leu Thr Met Ile Lys Ala Arg Pro Gly Val
            130                   135                   140
Gly Ala His Ala Cys Asn Pro Ser Thr Leu Gly Gly Arg Gly Gly Arg
145                   150                   155                   160
Ile Thr Thr Leu Gly Asp Pro Asp His Ser Pro
                    165                   170
```


<210> 2354

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2354

```
Met Val Glu Leu Val Ser Glu Ala Trp Tyr Ser Ala Ala Glu Ala Arg
1                     5                     10                    15
Gln Gly Cys His Gly Asp Phe His Ser Ile Trp Met Ala Asn Cys Leu
            20                    25                    30
His Val Gly Lys Pro His Gly Thr Asp Ser Phe Leu Lys Gly Ser Pro
            35                    40                    45
Ser Ile Ser Glu Phe Gly Asp Phe Ile Ser Tyr Ser Trp Asn Gln Asn
            50                    55                    60
Glu Cys Gly Val Ile Ile Tyr Ile Phe Phe Gly Thr Glu Ser Arg Ser
65                    70                    75                    80
Val Ala Gln Ala Gly Val Gln Trp Cys Asp Leu Val Ser Leu Gln Pro
```

```
                    85                  90                  95
Leu Pro Pro Gly Phe Lys
                100
```

<210> 2355
<211> 127
<212> PRT
<213> Homo sapiens

<400> 2355

```
Met Pro Ser Cys Asp Pro Gly Pro Gly Pro Ala Cys Leu Pro Thr Lys
 1               5                  10                  15
Thr Phe Arg Ser Tyr Leu Pro Arg Cys His Arg Thr Tyr Ser Cys Val
                20                  25                  30
His Cys Arg Ala His Leu Ala Lys His Asp Glu Leu Ile Ser Lys Ser
            35                  40                  45
Phe Gln Gly Ser His Gly Arg Ala Tyr Leu Phe Asn Ser Val Val Asn
        50                  55                  60
Val Gly Cys Gly Pro Ala Glu Gln Arg Leu Leu Leu Thr Gly Leu His
65                  70                  75                  80
Ser Val Ala Asp Ile Phe Cys Glu Ser Cys Lys Thr Thr Leu Gly Trp
                85                  90                  95
Lys Tyr Glu Gln Ala Phe Glu Thr Ser Gln Lys Tyr Lys Glu Gly Lys
                100                 105                 110
Tyr Ile Ile Glu Met Ser His Met Val Lys Asp Asn Gly Trp Asp
                115                 120                 125
```

<210> 2356
<211> 143
<212> PRT
<213> Homo sapiens

<400> 2356

```
Met Ala Asn Asp Leu Cys Met Trp Gly Ala Asp Ile Gln Ser Val Pro
```

```
   1                   5                  10                  15
Gly Pro Leu Trp His His Phe Cys Gly Arg Ala Gly Ser Pro Cys Thr
                 20                  25                  30
Gly Leu Cys Cys Phe Cys Arg Pro Gly Phe Gln Gly Ser Cys Leu Cys
             35                  40                  45
Leu Ala Leu Leu Phe Ser Ala Phe Pro Arg Tyr Phe Ser Asp Trp Ser
         50                  55                  60
Leu Pro Ser Leu Pro Leu Pro Ser Gln Asp Cys Gly Pro Leu Gln Val
 65                  70                  75                  80
Leu Gln Met Asp Pro Ser Trp Leu Met Lys Val Phe Pro Ser His Leu
                 85                  90                  95
Glu Pro Thr Pro Ser Gly Ser Lys Ala Ala Gly Pro Gln Leu Pro Thr
             100                 105                 110
Leu Val Gln Leu Cys Ser Cys Trp Val Glu Trp Gly Arg Gly Arg Trp
             115                 120                 125
Ser Ser Cys Leu Tyr Ala Ala Gly Phe Gly Leu Leu Val Phe Tyr
             130                 135                 140
```

<210> 2357

<211> 115

<212> PRT

<213> Homo sapiens

<400> 2357

```
Met Gly Phe Tyr His Val Gly Gln Ser Gly Leu Glu Leu Leu Ser Ser
 1                   5                  10                  15
Arg Asp Leu Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Pro Gly Val
                 20                  25                  30
Ser His Cys Ala Arg Pro Arg Leu Val Ile Phe Lys Met Gly Leu Lys
             35                  40                  45
Leu Arg Ala Gly Leu Gln Glu Glu Asn Glu Leu Arg Ser Asp Phe Arg
         50                  55                  60
Cys Trp Asn Pro Ser Ala Ser Leu Pro Ala Thr Leu Gln Phe Leu Ala
 65                  70                  75                  80
Ala Ser Ser Ser Phe Ala Val Cys Pro Trp Phe Ala Val Phe Val Ile
```

.

```
                  85                   90                   95
Arg Asn Leu Cys Tyr Glu Ile Ser Gly Ile His Trp Leu Leu Leu Ser
              100                  105                  110
Asn Phe Val
          115
```

<210> 2358

<211> 179

<212> PRT

<213> Homo sapiens

<400> 2358

```
Met Arg Lys Glu Ala Val Pro Ser Arg Gly Leu Ser Cys Val Arg Gly
 1               5                   10                  15
Gly Ala Ala Ala Val Ala Gly Val Ser Arg His Pro Thr Gln Gly Ser
              20                   25                  30
Phe Gln Ile Arg His Leu Phe Thr Arg Pro Pro Tyr Ser Phe Phe Ser
              35                   40                  45
Pro Arg Leu Leu His Val Gly Val Gln Cys Leu Ala Leu Thr Ser Pro
          50                   55                  60
His Ser Ser Trp Trp Gly Phe Glu Leu Gly Val Pro Ser Ala Pro His
 65                  70                   75                  80
Ser Pro Leu Thr Ala Pro Thr Pro Arg Lys Pro Pro Leu Pro Pro Leu
              85                   90                  95
Phe Val Ser Ser Phe His Ser Leu Gly Gly Gln Ala Ala Ala Pro Val
              100                  105                  110
Ala Ala Pro Ala Leu Phe His Pro Pro Leu Leu Ser Gln Pro Glu Leu
              115                  120                  125
Tyr Arg Glu Val Trp Ala Pro His Leu Gly Pro Cys His Ala Cys Ser
              130                  135                  140
Gln Lys His Pro Arg Gly Ser Pro Asp Ser Leu Leu Pro Trp Ala Leu
145                  150                  155                  160
Leu Arg Ser Pro Phe Ile Val Ala Phe Gly Val Cys Leu Met Pro Ile
                  165                  170                  175
Pro Cys Ser
```

<210> 2359

<211> 920

<212> PRT

<213> Homo sapiens

<400> 2359

Met Gly Arg Gly Ala Gly Arg Glu Tyr Ser Pro Ala Ala Thr Thr Ala
1   5   10   15

Glu Asn Gly Gly Gly Lys Lys Lys Gln Lys Glu Lys Glu Leu Asp Glu
                20   25   30

Leu Lys Lys Glu Val Val Ile Val Thr Gly Cys Phe Ser Tyr Tyr Gln
        35   40   45

Glu Ala Lys Ser Ser Lys Ile Met Asp Ser Phe Lys Asn Met Val Pro
    50   55   60

Gln Gln Ala Leu Val Ile Arg Glu Gly Glu Lys Met Gln Ile Asn Ala
65   70   75   80

Glu Glu Val Val Val Gly Asp Leu Val Glu Val Lys Gly Gly Asp Arg
                85   90   95

Val Pro Ala Asp Leu Arg Ile Ile Ser Ser His Gly Cys Lys Val Asp
            100   105   110

Asn Ser Ser Leu Thr Gly Glu Pro Glu Pro Gln Thr Arg Ser Pro Glu
            115   120   125

Phe Thr His Glu Asn Pro Leu Glu Thr Arg Asn Ile Cys Phe Phe Ser
        130   135   140

Thr Asn Cys Val Glu Gly Thr Ala Arg Gly Ile Val Ile Ala Thr Gly
145   150   155   160

Asp Arg Thr Val Met Gly Arg Ile Ala Thr Leu Ala Ser Gly Leu Glu
                165   170   175

Val Gly Arg Thr Pro Ile Ala Met Glu Ile Glu His Phe Ile Gln Leu
            180   185   190

Ile Thr Gly Val Ala Val Phe Leu Gly Val Ser Phe Phe Val Leu Ser
            195   200   205

Leu Ile Leu Gly Tyr Ser Trp Leu Glu Ala Val Ile Phe Leu Ile Gly

```
        210                   215                   220
Ile Ile Val Ala Asn Val Pro Glu Gly Leu Leu Ala Thr Val Thr Val
225                   230                   235                   240
Cys Leu Thr Leu Thr Ala Lys Arg Met Ala Arg Lys Asn Cys Leu Val
              · 245                   250                   255
Lys Asn Leu Glu Ala Val Glu Thr Leu Gly Ser Thr Ser Thr Ile Cys
                  260                   265                   270
Ser Asp Lys Thr Gly Thr Leu Thr Gln Asn Arg Met Thr Val Ala His
                  275                   280                   285
Met Trp Phe Asp Asn Gln Ile His Glu Ala Asp Thr Thr Glu Asp Gln
              290                   295                   300
Ser Gly Ala Thr Phe Asp Lys Arg Ser Pro Thr Trp Thr Ala Leu Ser
305                   310                   315                   320
Arg Ile Ala Gly Leu Cys Asn Arg Ala Val Phe Lys Ala Gly Gln Glu
                  325                   330                   335
Asn Ile Ser Val Ser Lys Arg Asp Thr Ala Gly Asp Ala Ser Glu Ser
                  340                   345                 . 350
Ala Leu Leu Glu Cys Ile Glu Leu Ser Cys Gly Ser Val Arg Lys Met
                  355                   360                   365
Arg Asp Arg Asn Pro Lys Val Ala Glu Ile Pro Phe Asn Ser Thr Asn
                  370                   375                   380
Lys Tyr Gln Leu Ser Ile His Glu Arg Glu Asp Ser Pro Gln Ser His
385                   390                   395                   400
Val Leu Val Met Lys Gly Ala Pro Glu Arg Ile Leu Asp Arg Cys Ser
              ι       405                   410                   415
Thr Ile Leu Val Gln Gly Lys Glu Ile Pro Leu Asp Lys Glu Met Gln
                  420                   425                   430
Asp Ala Phe Gln Asn Ala Tyr Met Glu Leu Gly Gly Leu Gly Glu Arg
                  435                   440                   445
Val Leu Gly Phe Cys Gln Leu Asn Leu Pro Ser Gly Lys Phe Pro Arg
                  450                   455                   460
Gly Phe Lys Phe Asp Thr Asp Glu Leu Asn Phe Pro Thr Glu Lys Leu
465                   470                   475                   480
Cys Phe Val Gly Leu Met Ser Met Ile Asp Pro Pro Arg Ala Ala Val
                  485                   490                   495
Pro Asp Ala Val Gly Lys Cys Arg Ser Ala Gly Ile Lys Val Ile Met
```

```
                  500                    505                    510
Val Thr Gly Asp His Pro Ile Thr Ala Lys Ala Ile Ala Lys Gly Val
            515                    520                    525
Gly Ile Ile Ser Glu Gly Asn Glu Thr Val Glu Asp Ile Ala Ala Arg
        530                    535                    540
Leu Asn Ile Pro Met Ser Gln Val Asn Pro Arg Glu Ala Lys Ala Cys
545                    550                    555                    560
Val Val His Gly Ser Asp Leu Lys Asp Met Thr Ser Glu Gln Leu Asp
                565                    570                    575
Glu Ile Leu Lys Asn His Thr Glu Ile Val Phe Ala Arg Thr Ser Pro
            580                    585                    590
Gln Gln Lys Leu Ile Ile Val Glu Gly Cys Gln Arg Gln Gly Ala Ile
            595                    600                    605
Val Ala Val Thr Gly Asp Gly Val Asp Asp Ser Pro Ala Leu Lys Lys
        610                    615                    620
Ala Asp Ile Gly Ile Ala Met Gly Ile Ser Gly Ser Asp Val Ser Lys
625                    630                    635                    640
Gln Ala Ala Asp Met Ile Leu Leu Asp Asp Asn Phe Ala Ser Ile Val
                645                    650                    655
Thr Gly Val Glu Glu Gly Arg Leu Ile Phe Asp Asn Leu Lys Lys Ser
                660                    665                    670
Ile Ala Tyr Thr Leu Thr Ser Asn Ile Pro Glu Ile Thr Pro Phe Leu
            675                    680                    685
Leu Phe Ile Ile Ala Asn Ile Pro Leu Pro Leu Gly Thr Val Thr Ile
        690                    695                    700
Leu Cys Ile Asp Leu Gly Thr Asp Met Val Pro Ala Ile Ser Leu Ala
705                    710                    715                    720
Tyr Glu Ala Ala Glu Ser Asp Ile Met Lys Arg Gln Pro Arg Asn Ser
                725                    730                    735
Gln Thr Asp Lys Leu Val Asn Glu Arg Leu Ile Ser Met Ala Tyr Gly
            740                    745                    750
Gln Ile Gly Met Ile Gln Ala Leu Gly Gly Phe Phe Thr Tyr Phe Val
            755                    760                    765
Ile Leu Ala Glu Asn Gly Phe Leu Pro Ser Arg Leu Leu Gly Ile Arg
        770                    775                    780
Leu Asp Trp Asp Asp Arg Thr Met Asn Asp Leu Glu Asp Ser Tyr Gly
```

			785				790					795				800
Gln	Glu	Trp	Thr	Tyr	Glu	Gln	Arg	Lys	Val	Val	Glu	Phe	Thr	Cys	His

805 810 815

Thr Ala Phe Phe Ala Ser Ile Val Val Val Gln Trp Ala Asp Leu Ile
        820   825   830

Ile Cys Lys Thr Arg Arg Asn Ser Val Phe Gln Gln Gly Met Lys Asn
        835   840   845

Lys Ile Leu Ile Phe Gly Leu Leu Glu Glu Thr Ala Leu Ala Ala Phe
    850   855   860

Leu Ser Tyr Cys Pro Gly Met Gly Val Ala Leu Arg Met Tyr Pro Leu
865   870   875   880

Lys Val Thr Trp Trp Phe Cys Ala Phe Pro Tyr Ser Leu Leu Ile Phe
            885   890   895

Ile Tyr Asp Glu Val Arg Lys Leu Ile Leu Arg Arg Tyr Pro Gly Gly
        900   905   910

Trp Val Glu Lys Glu Thr Tyr Tyr
        915   920

<210> 2360

<211> 293

<212> PRT

<213> Homo sapiens

<400> 2360

Met Glu Leu Ser Asp Phe Glu Asp Cys Leu Thr Leu Phe Ala Gly Asp
1   5   10   15

Pro Gly Leu Gly Pro Glu Glu Leu Arg Ala Ala Met Gly Lys Ala Lys
            20   25   30

Gln Leu Trp Gly Pro Pro Arg Gly Phe Arg Pro Glu Gln Ile Leu Gln
        35   40   45

Leu Gly Arg Leu Leu Ile Gly Leu Gly Asp Arg Glu Leu Gln Glu Leu
    50   55   60

Ile Leu Val Asp Trp Gly Val Leu Ser Thr Leu Gly Gln Ile Asp Gly
65   70   75   80

Trp Ser Thr Thr Gln Leu Arg Ile Val Val Ser Ser Phe Leu Arg Gln

```
                    85                      90                      95
Ser Gly Arg His Val Ser His Leu Asp Phe Val His Leu Thr Ala Leu
                100                     105                     110
Gly Tyr Thr Leu Cys Gly Leu Arg Pro Glu Glu Leu Gln His Ile Ser
                115                     120                     125
Ser Trp Glu Phe Ser Gln Ala Ala Leu Phe Leu Gly Thr Leu His Leu
            130                     135                     140
Gln Cys Ser Glu Glu Gln Leu Glu Val Leu Ala His Leu Leu Val Leu
145                     150                     155                     160
Pro Gly Gly Phe Gly Pro Ile Ser Asn Trp Gly Pro Glu Ile Phe Thr
                165                     170                     175
Glu Ile Gly Thr Ile Ala Ala Gly Ile Pro Asp Leu Ala Leu Ser Ala
                180                     185                     190
Leu Leu Arg Gly Gln Ile Gln Gly Val Thr Pro Leu Ala Ile Ser Val
                195                     200                     205
Ile Pro Pro Pro Lys Phe Ala Val Val Phe Ser Pro Ile Gln Leu Ser
            210                     215                     220
Ser Leu Thr Ser Ala Gln Ala Val Ala Val Thr Pro Glu Gln Met Ala
225                     230                     235                     240
Phe Leu Ser Pro Glu Gln Arg Arg Ala Val Ala Trp Ala Gln His Glu
                245                     250                     255
Gly Lys Glu Ser Pro Glu Gln Gln Gly Arg Ser Thr Ala Trp Gly Leu
                260                     265                     270
Gln Asp Trp Ser Arg Pro Ser Trp Ser Leu Val Leu Thr Ile Ser Phe
                275                     280                     285
Leu Gly His Leu Leu
                290
```

<210> 2361

<211> 173

<212> PRT

<213> Homo sapiens

<400> 2361

```
Met Trp Val Pro Ala Gly Gln Ala Ile Gly Gly Tyr Gly Pro Pro Pro
```

```
            1                   5                   10                  15
Ala Gly Arg Gly Ala Pro Pro Pro Pro Pro Phe Thr Ser Tyr Ile
                    20                  25                  30
Val Ser Thr Pro Pro Gly Gly Phe Pro Pro Pro Gln Gly Phe Pro Gln
                35                  40                  45
Gly Tyr Gly Ala Pro Pro Gln Phe Ser Phe Gly Tyr Gly Pro Pro Pro
            50                  55                  60
Pro Pro Pro Asp Gln Phe Ala Pro Pro Gly Val Pro Pro Pro Pro Ala
65                  70                  75                  80
Thr Pro Gly Ala Ala Pro Leu Ala Phe Pro Pro Pro Pro Ser Gln Ala
                    85                  90                  95
Ala Pro Asp Met Ser Lys Pro Pro Thr Ala Gln Pro Asp Phe Pro Tyr
                100                 105                 110
Gly Gln Tyr Ala Gly Tyr Gly Gln Asp Leu Ser Gly Phe Gly Gln Gly
                115                 120                 125
Phe Ser Asp Pro Ser Gln Gln Pro Pro Ser Tyr Gly Gly Pro Ser Val
            130                 135                 140
Pro Gly Ser Gly Gly Pro Pro Ala Gly Gly Ser Gly Phe Gly Arg Gly
145                 150                 155                 160
Gln Asn His Asn Val Gln Gly Phe His Pro Tyr Arg Arg
                165                 170
```

<210> 2362

<211> 270

<212> PRT

<213> Homo sapiens

<400> 2362


```
            1                   5                   10                  15
Met His Gly Ser Cys Ser Phe Leu Met Leu Leu Leu Pro Leu Leu Leu
                    20                  25                  30
Leu Leu Val Ala Thr Thr Gly Pro Val Gly Ala Leu Thr Asp Glu Glu
                35                  40                  45
Lys Arg Leu Met Val Glu Leu His Asn Leu Tyr Arg Ala Gln Val Ser
```

Pro Pro Ala Ser Asp Met Leu His Met Arg Trp Asp Glu Glu Leu Ala
    50   55   60
Ala Phe Ala Lys Ala Tyr Ala Arg Gln Cys Val Trp Gly His Asn Lys
65   70   75   80
Glu Arg Gly Arg Arg Gly Glu Asn Leu Phe Ala Ile Thr Asp Glu Gly
                85   90   95
Met Asp Val Pro Leu Ala Met Glu Glu Trp His His Glu Arg Glu His
            100   105   110
Tyr Asn Leu Ser Ala Ala Thr Cys Ser Pro Gly Gln Met Cys Gly His
        115   120   125
Tyr Thr Gln Val Val Trp Ala Lys Thr Glu Arg Ile Gly Cys Gly Ser
    130   135   140
His Phe Cys Glu Lys Leu Gln Gly Val Glu Glu Thr Asn Ile Glu Leu
145   150   155   160
Leu Val Cys Asn Tyr Glu Pro Pro Gly Asn Val Lys Gly Lys Arg Pro
                165   170   175
Tyr Gln Glu Gly Thr Pro Cys Ser Gln Cys Pro Ser Gly Tyr His Cys
            180   185   190
Lys Asn Ser Leu Cys Glu Pro Ile Gly Ser Pro Glu Asp Ala Gln Asp
        195   200   205
Leu Pro Tyr Leu Val Thr Glu Ala Pro Ser Phe Arg Ala Thr Glu Ala
    210   215   220
Ser Asp Ser Arg Lys Met Gly Ala Glu Gly Pro Asp Lys Pro Ser Val
225   230   235   240
Val Ser Gly Leu Asn Ser Gly Pro Gly His Val Trp Gly Pro Leu Leu
                245   250   255
Gly Leu Leu Leu Leu Pro Pro Leu Val Leu Ala Gly Ile Phe
        260   265   270

<210> 2363

<211> 119

<212> PRT

<213> Homo sapiens

<400> 2363

```
Met Arg Lys Lys Gly Ser Leu Pro Leu Gly Pro Ala Leu Leu Met His
 1               5                  10                  15
Val Cys Ala His Ala Cys Lys Pro Gly Thr Phe Ser Ser Arg Pro Pro
                20                  25                  30
Gly Leu Gly Gln Phe Leu Leu Leu Pro Ser Pro Pro Thr Gly Cys
            35                  40                  45
Val Leu Ser Asn Trp Asn Met Arg Leu Tyr Leu Gln Asp Trp Pro His
        50                  55                  60
Gly Gly Arg Val Arg Ser Leu Phe Pro Val Ser Arg His Arg Ser Leu
65                  70                  75                  80
Ser Leu Ala Leu Pro Cys Phe Gly Ala Ser Leu Val Ala Pro Val Arg
                85                  90                  95
Phe Ser Arg Leu Val Ala Ala Gln Ser Gly Val Arg Thr Cys Arg Gly
                100                 105                 110
His Ala Phe Leu Ala Leu Thr
                115
```

<210> 2364

<211> 242

<212> PRT

<213> Homo sapiens

<400> 2364

```
Met Pro Pro Gly His Thr His Ser Gly Ser Asp Ser Ser Asp Ser Glu
 1               5                  10                  15
Tyr Ser Ser Gln Thr Thr Val Ser Gly Leu Ser Glu Glu Leu Arg His
                20                  25                  30
Tyr Glu Ala Gln Gln Gly Ala Gly Gly Pro Ala His Gln Val Ile Val
            35                  40                  45
Glu Ala Thr Glu Asn Pro Val Phe Ala His Ser Thr Val Val His Pro
        50                  55                  60
Glu Ser Arg His His Pro Pro Ser Asn Pro Arg Gln Gln Pro His Leu
65                  70                  75                  80
Asp Ser Gly Ser Leu Pro Pro Gly Arg Gln Gly Gln Gln Pro Arg Arg
                85                  90                  95
```

Asp Pro Pro Arg Glu Gly Leu Trp Pro Pro Pro Tyr Arg Pro Arg Arg
        100   105   110

Asp Ala Phe Glu Ile Ser Thr Glu Gly His Ser Gly Pro Ser Asn Arg
        115   120   125

Ala Arg Trp Gly Pro Arg Gly Ala Arg Ser His Asn Pro Arg Asn Pro
     130   135   140

Ala Ser Thr Ala Met Gly Ser Ser Val Pro Gly Tyr Cys Gln Pro Ile
145   150   155   160

Thr Thr Val Thr Ala Ser Ala Ser Val Thr Val Ala Val His Pro Pro
        165   170   175

Pro Val Pro Gly Pro Gly Arg Asn Pro Arg Gly Gly Leu Cys Pro Gly
        180   185   190

Tyr Pro Glu Thr Asp His Gly Leu Phe Glu Asp Pro Thr Cys Leu Ser
        195   200   205

Thr Ser Gly Val Arg Gly Gly Ile Arg Arg Trp Lys Ser Leu Ser Cys
        210   215   220

Arg Thr Trp Asn Ala Arg Arg Gly Pro Gly Glu Ala Ala Pro Thr Glu
225   230   235   240

Gly Asp

<210> 2365

<211> 945

<212> PRT

<213> Homo sapiens

<400> 2365

Met Ala Glu Gly Gln Gly Gly Gly Gly Gln Arg Trp Asp Trp Ala Gly
1   5   10   15

Gly Gly Arg Ala Ala Glu Glu Glu Val Val Arg Arg Arg Cys Arg Arg
        20   25   30

Gly Glu Glu Ala Gln Val Ala Gln Pro Trp Pro Glu Gly Ser Arg Gly
        35   40   45

Thr Ala Ala Gly Pro Pro Val Glu Glu Arg Phe Arg Gln Leu His Leu
        50   55   60

Arg Lys Gln Val Ser Tyr Arg Lys Ala Ile Thr Lys Ser Gly Leu Gln
65   70   75   80

His Leu Ala Pro Pro Pro Pro Thr Pro Gly Ala Pro Cys Ser Glu Ser
                  85   90   95

Glu Arg Gln Ile Arg Ser Thr Val Asp Trp Ser Glu Ser Ala Thr Tyr
                  100   105   110

Gly Glu His Ile Trp Phe Glu Thr Asn Val Ser Gly Asp Phe Cys Tyr
                  115   120   125

Val Gly Glu Gln Tyr Cys Val Ala Arg Met Leu Lys Ser Val Ser Arg
        130   135   140

Arg Lys Cys Ala Ala Cys Lys Ile Val Val His Thr Pro Cys Ile Glu
145   150   155   160

Gln Leu Glu Lys Ile Asn Phe Arg Cys Lys Pro Ser Phe Arg Glu Ser
                  165   170   175

Gly Ser Arg Asn Val Arg Glu Pro Thr Phe Val Arg His His Trp Val
                  180   185   190

His Arg Arg Arg Gln Asp Gly Lys Cys Arg His Cys Gly Lys Gly Phe
        195   200   205

Gln Gln Lys Phe Thr Phe His Ser Lys Glu Ile Val Ala Ile Ser Cys
        210   215   220

Ser Trp Cys Lys Gln Ala Tyr His Ser Lys Val Ser Cys Phe Met Leu
225   230   235   240

Gln Gln Ile Glu Glu Pro Cys Ser Leu Gly Val His Ala Ala Val Val
                  245   250   255

Ile Pro Pro Thr Trp Ile Leu Arg Ala Arg Arg Pro Gln Asn Thr Leu
                  260   265   270

Lys Ala Ser Lys Lys Lys Lys Arg Ala Ser Phe Lys Arg Lys Ser Ser
        275   280   285

Lys Lys Gly Pro Glu Glu Gly Arg Trp Arg Pro Phe Ile Ile Arg Pro
        290   295   300

Thr Pro Ser Pro Leu Met Lys Pro Leu Leu Val Phe Val Asn Pro Lys
305   310   315   320

Ser Gly Gly Asn Gln Gly Ala Lys Ile Ile Gln Ser Phe Leu Trp Tyr
                  325   330   335

Leu Asn Pro Arg Gln Val Phe Asp Leu Ser Gln Gly Gly Pro Lys Glu
                  340   345   350

Ala Leu Glu Met Tyr Arg Lys Val His Asn Leu Arg Ile Leu Ala Cys
     355   360   365

Gly Gly Asp Gly Thr Val Gly Trp Ile Leu Ser Thr Leu Asp Gln Leu
     370   375   380

Arg Leu Lys Pro Pro Pro Val Ala Ile Leu Pro Leu Gly Thr Gly
385   390   395   400

Asn Asp Leu Ala Arg Thr Leu Asn Trp Gly Gly Gly Tyr Thr Asp Glu
          405   410   415

Pro Val Ser Lys Ile Leu Ser His Val Glu Glu Gly Asn Val Val Gln
          420   425   430

Leu Asp Arg Trp Asp Leu His Ala Glu Pro Asn Pro Glu Ala Gly Pro
          435   440   445

Glu Asp Arg Asp Glu Gly Ala Thr Asp Arg Leu Pro Leu Asp Val Phe
          450   455   460

Asn Asn Tyr Phe Ser Leu Gly Phe Asp Ala His Val Thr Leu Glu Phe
465   470   475   480

His Glu Ser Arg Glu Ala Asn Pro Glu Lys Phe Asn Ser Arg Phe Arg
          485   490   495

Asn Lys Met Phe Tyr Ala Gly Thr Ala Phe Ser Asp Phe Leu Met Gly
          500   505   510

Ser Ser Lys Asp Leu Ala Lys His Ile Arg Val Val Cys Asp Gly Met
          515   520   525

Asp Leu Thr Pro Lys Ile Gln Asp Leu Lys Pro Gln Cys Val Val Phe
          530   535   540

Leu Asn Ile Pro Arg Tyr Cys Ala Gly Thr Met Pro Trp Gly His Pro
545   550   555   560

Gly Glu His His Asp Phe Glu Pro Gln Arg His Asp Asp Gly Tyr Leu
          565   570   575

Glu Val Ile Gly Phe Thr Met Thr Ser Leu Ala Ala Leu Gln Val Gly
          580   585   590

Gly His Gly Glu Arg Leu Thr Gln Cys Arg Glu Val Val Leu Thr Thr
          595   600   605

Ser Lys Ala Ile Pro Val Gln Val Asp Gly Glu Pro Cys Lys Leu Ala
          610   615   620

Ala Ser Arg Ile Arg Ile Ala Leu Arg Asn Gln Ala Thr Met Val Gln
625   630   635   640

Lys Ala Lys Arg Arg Ser Ala Ala Pro Leu His Ser Asp Gln Gln Pro
    645   650   655

Val Pro Glu Gln Leu Arg Ile Gln Val Ser Arg Val Ser Met His Asp
    660   665   670

Tyr Glu Ala Leu His Tyr Asp Lys Glu Gln Leu Lys Glu Ala Ser Val
    675   680   685

Pro Leu Gly Thr Val Val Val Pro Gly Asp Ser Asp Leu Glu Leu Cys
    690   695   700

Arg Ala His Ile Glu Arg Leu Gln Gln Glu Pro Asp Gly Ala Gly Ala
705   710   715   720

Lys Ser Pro Thr Cys Gln Lys Leu Ser Pro Lys Trp Cys Phe Leu Asp
    725   730   735

Ala Thr Thr Ala Ser Arg Phe Tyr Arg Ile Asp Arg Ala Gln Glu His
    740   745   750

Leu Asn Tyr Val Thr Glu Ile Ala Gln Asp Glu Ile Tyr Ile Leu Asp
    755   760   765

Pro Glu Leu Leu Gly Ala Ser Ala Arg Pro Asp Leu Pro Thr Pro Thr
    770   775   780

Ser Pro Leu Pro Thr Ser Pro Cys Ser Pro Thr Pro Arg Ser Leu Gln
785   790   795   800

Gly Asp Ala Ala Pro Pro Gln Gly Glu Glu Leu Ile Glu Ala Ala Lys
    805   810   815

Arg Asn Asp Phe Cys Lys Leu Gln Glu Leu His Arg Ala Gly Gly Asp
    820   825   830

Leu Met His Arg Asp Glu Gln Ser Arg Thr Leu Leu His His Ala Val
    835   840   845

Ser Thr Gly Ser Lys Asp Val Val Arg Tyr Leu Leu Asp His Ala Pro
    850   855   860

Pro Glu Ile Leu Asp Ala Val Glu Glu Asn Gly Glu Thr Cys Leu His
865   870   875   880

Gln Ala Ala Ala Leu Gly Gln Arg Thr Ile Cys His Tyr Ile Val Glu
    885   890   895

Ala Gly Ala Ser Leu Met Lys Thr Asp Gln Gln Gly Asp Thr Pro Arg
    900   905   910

Gln Arg Ala Glu Lys Ala Gln Asp Thr Glu Leu Ala Ala Tyr Leu Glu
    915   920   925

Asn Arg Gln His Tyr Gln Met Ile Gln Arg Glu Asp Gln Glu Thr Ala
        930   935   940
Val
945

<210> 2366
<211> 115
<212> PRT
<213> Homo sapiens

<400> 2366
Met Gly Tyr Asn Pro Val Leu Leu Ser Phe Val Arg Met Phe Pro Ala
 1   5   10   15
Gln Ala Leu Arg Ser Ser Leu Ser Ser Tyr Val Leu Phe Ala Tyr Pro
             20   25   30
Val Ile Val Gly Phe Cys Trp Val Leu Cys Val Leu Asn Thr Phe Leu
         35   40   45
Leu Ser Gly Thr Thr Arg Tyr Ser Arg Leu Ile Leu Cys Val Ser Tyr
     50   55   60
Arg Ser Pro Lys Ile Ser His Phe Ser Lys Lys Pro Ser Phe Leu Leu
 65   70   75   80
Leu Glu Arg Glu Ile Arg Asn His Gly Cys Trp Val Cys Ser Leu Leu
                 85   90   95
Leu Gly Cys Leu Ser Phe Gly Pro Ser His Leu Thr Lys Gly Tyr Met
                100   105   110
Cys Phe Tyr
            115

<210> 2367
<211> 217
<212> PRT
<213> Homo sapiens

<400> 2367

```
Met Ala Ser Ala Gly Pro Asn Arg Pro Glu Ile Ser Leu Ala Arg Asn
 1               5                  10                  15
Ser Thr Cys Val Gly Cys Pro Asn Asn His Ser Phe Ser Arg Thr Val
                20                  25                  30
Ala His Gly Gly Arg Ala Leu Ala Ser Ala Trp Pro Pro Gln Ala Gln
            35                  40                  45
Phe Leu Pro Val Gly Gly Arg Ser Arg Pro Gly Ser Cys Pro Ser Ala
        50                  55                  60
Ser Ser Pro Gly Pro Glu Leu Val Pro Val Gly Leu Ser Arg Pro Ser
65                  70                  75                  80
Ser Pro Gly His Leu His Gly Pro Ser Ser Cys Leu Thr Thr Thr Thr
                85                  90                  95
Phe Gly Pro Ala Pro Ala Gln Leu Leu Ala Ala Val Val Gly Pro Arg
               100                 105                 110
Leu Pro Cys Val Gln Ala Ser Arg Thr His Leu Arg Leu Ser Gly Gly
           115                 120                 125
Pro Glu Arg Pro Gly Ser Cys Leu Pro Ala Ala Ser Pro Gly Pro Ala
       130                 135                 140
Ala Ala Ser Arg Arg Pro Pro Gln Ala Thr Phe Pro Pro Ala Ser Arg
145                 150                 155                 160
Gln Pro Arg Gln Ala Arg Leu Pro Pro Ala Gly Gly Leu Leu Arg Arg
               165                 170                 175
Leu Ile Ser Cys Pro Ala Ala Ala Ser Pro Gly Gln Ala Pro Ala Cys
           180                 185                 190
Arg Gln Ala Pro Gln Ala Gln Leu Leu Arg Pro Glu Gly Phe Ser Arg
       195                 200                 205
Pro Gly Ser Cys Leu Ala Ala Ala Ser
   210                 215
```

<400> 2368

Met Gln Gly Cys Ala Arg Ile Asn Ser His Pro Ser Gly Ala Phe Gly
1   5   10   15

Asp Gly His Val Gln Tyr Cys Asp Asn Val Val Asp Arg Trp Pro Phe
                20   25   30

Leu Pro Leu Phe Cys Thr Phe Phe Pro Asp Gly Trp Gly Cys Phe Trp
            35   40   45

Ala Ala Gln Ser Val Val Gly Ser Trp Gly Arg Gly Asn Gly Pro Gln
        50   55   60

Leu Leu Pro Gln Glu Leu Trp Lys Trp His Trp His Gly Tyr Ala Pro
65   70   75   80

Arg Leu Ser Leu Leu Leu Phe Pro Gly Pro Pro Val Val Ile Thr His
                85   90   95

Pro Asp Leu Gly Asp Leu His Asn Ile Thr Glu Val Gln Pro Leu Gln
            100   105   110

Gly Gly Arg Trp Trp His Ser Arg Thr Cys Ser Ser Pro Leu Cys Gly
            115   120   125

His His Ser Leu Pro Leu Leu Leu Val Ser Leu Ser Leu Ala Glu Arg
        130   135   140

Gly Pro Ala Gly Pro Ser Glu Cys Phe Trp Arg Asn Ala Leu Ile Gln
145   150   155   160

Lys Glu Glu Val Lys Ser Leu Lys Thr Val Gly Asp Lys Thr Gly Asn
                165   170   175

Cys Phe Cys Phe Met Tyr Asn Lys Tyr Leu Pro Phe Tyr Val Ser His
            180   185   190

Phe Leu Gly Ile
        195

<210> 2369

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2369

Met Thr Gly Tyr His Lys Thr Arg Val Arg Gly Glu Lys Arg Gln Gly

```
 1                    5                    10                   15
Asp Gly Lys Lys Ser Trp Arg Ile Tyr Val Gln Ser Cys Gln Leu Gln
                20                   25                   30
Met Thr Lys Val Lys Pro Gln Ile Ser Arg Met Leu Arg Arg Met Gly
                35                   40                   45
Asn Ile Phe Leu Glu Asp Trp Ala Ala Pro Thr Pro Thr Leu Thr Leu
            50                   55                   60
Pro Ser Pro Thr Leu Ile Pro Thr Ser Glu Val Gln Ile Lys Gly Arg
65                   70                   75                   80
Gly Gln Arg Glu Phe Gln Ser Arg Phe Leu Asp Ser Ser Phe Phe Pro
                85                   90                   95
Leu Cys Leu Pro Met Val Ser Pro Ser Leu Gly Ile Leu
                100                  105
```

<210> 2370

<211> 283

<212> PRT

<213> Homo sapiens

<400> 2370

```
Met Asn Thr Leu Ser Phe Ala Val Leu Lys Glu Gly Arg Gln Leu Thr
    1                    5                    10                   15
Tyr Glu Lys Val Asn Leu Ser Ser Ile Arg Ala Met Leu Asn Ser Asn
                20                   25                   30
Asp Val Ser Glu Tyr Leu Lys Ile Ser Pro His Gly Leu Glu Ala Arg
                35                   40                   45
Cys Asp Ala Ser Ser Phe Glu Ser Val Arg Cys Thr Phe Cys Val Asp
            50                   55                   60
Ala Gly Val Trp Tyr Tyr Glu Val Thr Val Val Thr Ser Gly Val Met
65                   70                   75                   80
Gln Ile Gly Trp Ala Thr Arg Asp Ser Lys Phe Leu Asn His Glu Gly
                85                   90                   95
Tyr Gly Ile Gly Asp Asp Glu Tyr Ser Cys Ala Tyr Asp Gly Cys Arg
                100                  105                  110
Gln Leu Ile Trp Tyr Asn Ala Arg Ser Lys Pro His Ile His Pro Cys
```

```
         115                    120                    125
Trp Lys Glu Gly Asp Thr Val Gly Phe Leu Leu Asp Leu Asn Glu Lys
        130                    135                    140
Gln Met Ile Phe Phe Leu Asn Gly Asn Gln Leu Pro Pro Glu Lys Gln
145                    150                    155                    160
Val Phe Ser Ser Thr Val Ser Gly Phe Phe Ala Ala Ala Ser Phe Met
                   165                    170                    175
Ser Tyr Gln Gln Cys Glu Phe Asn Phe Gly Ala Lys Pro Phe Lys Tyr
                   180                    185                    190
Pro Pro Ser Met Lys Phe Ser Thr Phe Asn Asp Tyr Ala Phe Leu Thr
                   195                    200                    205
Ala Glu Glu Lys Ile Ile Leu Pro Arg His Arg Arg Leu Ala Leu Leu
                   210                    215                    220
Lys Gln Val Ser Ile Arg Glu Asn Cys Cys Ser Leu Cys Cys Asp Glu
225                    230                    235                    240
Val Ala Asp Thr Gln Leu Lys Pro Cys Gly His Ser Asp Leu Cys Met
                   245                    250                    255
Asp Cys Ala Leu Gln Leu Glu Thr Cys Pro Leu Cys Arg Lys Glu Ile
                   260                    265                    270
Val Ser Arg Ile Arg Gln Ile Ser His Ile Ser
                   275                    280
```

```
<210> 2371
<211> 109
<212> PRT
<213> Homo sapiens

<400> 2371
Met Leu Leu Met Ser Tyr Gly Ser Leu Leu Val Gln Leu Ala His Pro
1                   5                    10                   15
Pro Ile His Ser Leu Phe Asp Ser Gln Gln Leu Ser Val Phe Ser Cys
                   20                    25                    30
Cys Ser Ser Trp Phe Ser Ser Leu Phe Leu Val Leu Phe Phe Ser Ser
        35                    40                    45
Phe Phe Ser Asn Phe Phe Ser Val Leu Asp Cys Leu Ser Leu Met Phe
```

```
        50                    55                    60
Cys Ser Phe Phe Leu Phe Phe Leu Glu Thr Gly Ser His Ser Val Thr
65                    70                    75                    80
Gln Asp Gly Val Gln Trp His Asp Val Gly Ser Leu Gln Ser Leu Pro
                    85                    90                    95
Pro Lys Ala Gln Ala Ile Leu Pro Ser Gln Pro Pro Lys
                    100                   105
```

<210> 2372

<211> 372

<212> PRT

<213> Homo sapiens

<400> 2372

```
Met Asp Gln Tyr Lys Phe Tyr Asp Pro Ser Pro Pro Arg Arg Arg Gly
  1                   5                    10                   15
Asn Trp Ile Thr Leu Lys Met Arg Lys Leu Ile Lys Ser Lys Lys Asp
                    20                   25                   30
Ile Asn Arg Glu Arg Gln Lys Ser Leu Thr Leu Thr Pro Thr Arg Ser
            35                   40                   45
Asp Ser Ser Glu Gly Phe Leu Gln Leu Pro His Gln Asp Ser Gln Asp
        50                   55                   60
Ser Ser Ser Val Gly Ser Asn Ser Leu Glu Asp Gly Gln Thr Leu Gly
65                   70                   75                   80
Thr Lys Lys Ser Ser Asn Thr Thr Ser Phe Glu Asp Ile Ser Pro Gln
                    85                   90                   95
Gly Val Ser Asp Asp Ser Ser Thr Gly Ser Arg Val His Ala Gly Ala
                    100                  105                  110
Val Asn Asn Gln Ser Arg Pro Gln Ser His Ser Ser Gly Glu Phe Ser
            115                  120                  125
Leu Leu His Asp His Glu Ala Trp Ser Ser Ser Gly Ser Ser Pro Ile
        130                  135                  140
Gln Tyr Leu Lys Arg Gln Thr Arg Ser Ser Pro Val Leu Gln His Lys
145                  150                  155                  160
Ile Ser Glu Thr Leu Glu Ser Arg His His Lys Ile Lys Thr Gly Ser
```

```
                   165                 170                 175
Pro Gly Ser Glu Val Val Thr Leu Gln Gln Phe Leu Glu Glu Ser Asn
                180                 185                 190
Lys Leu Thr Ser Val Gln Ile Lys Ser Ser Ser Gln Glu Asn Leu Leu
                195                 200                 205
Asp Glu Val Met Lys Ser Leu Ser Val Ser Ser Asp Phe Leu Gly Lys
        210                 215                 220
Asp Lys Pro Val Ser Cys Gly Leu Ala Arg Ser Val Ser Gly Lys Thr
225                 230                 235                 240
Pro Gly Asp Phe Tyr Asp Arg Arg Thr Thr Lys Pro Glu Phe Leu Arg
                245                 250                 255
Pro Gly Pro Arg Lys Thr Glu Asp Thr Tyr Phe Ile Ser Ser Ala Gly
                260                 265                 270
Lys Pro Thr Pro Gly Thr Gln Gly Lys Ile Lys Leu Val Lys Glu Ser
                275                 280                 285
Ser Leu Ser Arg Gln Ser Lys Asp Ser Asn Pro Tyr Ala Thr Leu Pro
        290                 295                 300
Arg Ala Ser Ser Val Ile Ser Thr Ala Glu Gly Thr Thr Arg Arg Thr
305                 310                 315                 320
Ser Ile His Asp Phe Leu Thr Lys Asp Ser Arg Leu Pro Ile Ser Val
                325                 330                 335
Asp Ser Pro Pro Ala Ala Ala Asp Ser Asn Thr Thr Ala Ala Ser Asn
                340                 345                 350
Val Asp Lys Val Gln Glu Ser Arg Asn Ser Lys Ser Arg Ser Arg Glu
                355                 360                 365
Gln Gln Ser Ser
        370
```

<210> 2373

<211> 304

<212> PRT

<213> Homo sapiens

<400> 2373

```
Met Asp Ile Ser Gly Leu Ile Pro Gly Leu Val Ser Thr Phe Ile Leu
```

```
  1                   5                     10                      15
Leu Ser Ile Ser Asp His Tyr Gly Arg Lys Phe Pro Met Ile Leu Ser
            20                        25                      30
Ser Val Gly Ala Leu Ala Thr Ser Val Trp Leu Cys Leu Leu Cys Tyr
        35                        40                        45
Phe Ala Phe Pro Phe Gln Leu Leu Ile Ala Ser Thr Phe Ile Gly Ala
        50                        55                        60
Phe Cys Gly Asn Tyr Thr Thr Phe Trp Gly Ala Cys Phe Ala Tyr Ile
65                        70                  75                      80
Val Asp Gln Cys Lys Glu His Lys Gln Lys Thr Ile Arg Ile Ala Ile
                85                        90                        95
Ile Asp Phe Leu Leu Gly Leu Val Thr Gly Leu Thr Gly Leu Ser Ser
            100                       105                      110
Gly Tyr Phe Ile Arg Glu Leu Gly Phe Glu Trp Ser Phe Leu Ile Ile
            115                       120                      125
Ala Val Ser Leu Ala Val Asn Leu Ile Tyr Ile Leu Phe Phe Leu Gly
        130                       135                      140
Asp Pro Val Lys Glu Cys Ser Ser Gln Asn Val Thr Met Ser Cys Ser
145                       150                       155                      160
Glu Gly Phe Lys Asn Leu Phe Tyr Arg Thr Tyr Met Leu Phe Lys Asn
                165                       170                      175
Ala Ser Gly Lys Arg Arg Phe Leu Leu Cys Leu Leu Leu Phe Thr Val
            180                       185                      190
Ile Thr Tyr Phe Phe Val Val Ile Gly Ile Ala Pro Ile Phe Ile Leu
            195                       200                      205
Tyr Glu Leu Asp Ser Pro Leu Cys Trp Asn Glu Val Phe Ile Gly Tyr
        210                       215                      220
Gly Ser Ala Leu Gly Ser Ala Ser Phe Leu Thr Ser Phe Leu Gly Ile
225                       230                       235                      240
Trp Leu Phe Ser Tyr Cys Met Glu Asp Ile His Met Ala Phe Ile Gly
                245                       250                      255
Ile Phe Thr Thr Met Thr Gly Met Ala Met Thr Ala Phe Ala Ser Thr
                260                       265                      270
Thr Leu Met Met Phe Phe Ser Gln Gly Ala Val Pro Phe His Tyr Cys
            275                       280                      285
Ala Ile Leu Cys Ser Thr Val His Val Val Lys Ser Gly Ser Phe Asp
```

290   295   300

<210> 2374

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2374

Met Gly Ile Leu Tyr Asp Ala Glu Val Tyr Gly Thr Ile Ile Pro Thr
1   5   10   15
Ser Gln Val Val Ser Met Val Pro Ser Ser Phe Ser Thr Leu Ser Pro
                20   25   30
Ser Pro Val Ser Ile Ala Ala Ile Phe Met Ser Met Ser Ile Gln Cys
        35   40   45
Leu Leu Leu Phe Thr Ser Glu Asn Met Gln Tyr Leu Val Phe Phe Cys
        50   55   60
Tyr Ile Asn Ser Leu Arg Ile Met Ala Ser Ser Ser Ile His Val Ala
65   70   75   80
Ala Lys Asp Met Ile Leu Phe Phe Phe Ile Ala Val Trp Tyr Ser Met
                85   90   95
Met Tyr Val Tyr His Ser Phe Ile Ile Arg Ser Thr Val Asp Arg His
                100   105   110
Leu Gly

<210> 2375

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2375

Met Phe Trp Pro Gln Ser Asp Ala Cys Pro Thr Pro Gly Thr Pro Ser
1   5   10   15
Ser Met Leu Gln Glu Gly Gly Gln Val Asp Pro Gly Val Cys Arg Ser

```
                20                    25                    30
Leu His His Asn Pro Phe Pro Ser Leu Ser Val Ile Leu Gln Asp Phe
            35                    40                    45
Thr Gly Ser Thr Val Ala His Gly Ser Val Ser Leu Leu Leu Gln Ser
        50                    55                    60
Leu Pro Phe Asp Trp Ser Val Val Ser Val Cys Arg Gly Phe Asn Ala
65                    70                    75                    80


Pro Pro His Cys Ala Ala Leu Val Ser Leu Ser Leu Glu Leu Leu Ala
                85                    90                    95
Arg Leu Thr Arg Ser Ala Ser Ser Pro Gly His Ala Ser Pro Ser Gly
            100                   105                   110
Pro Val Ala Leu Thr Val Glu Phe Ala Met Cys Ser Asp Ser Gly Ala
            115                   120                   125
Ser Gly Leu Val Phe Cys Ala Phe Tyr Gly Phe
            130                   135
```

<210> 2376

<211> 168

<212> PRT

<213> Homo sapiens

<400> 2376

```
Met Pro Asp Val Pro Asp Ala Phe Pro Glu Leu Ser Glu Leu Ser Val
1                   5                    10                    15
Ser Gln Leu Thr Asp Met Asn Glu Gln Glu Glu Val Leu Leu Glu Gln
            20                    25                    30
Phe Leu Thr Leu Pro Gln Leu Lys Gln Ile Ile Thr Asp Lys Asp Asp
            35                    40                    45
Leu Val Lys Ser Ile Glu Glu Leu Ala Arg Lys Asn Leu Leu Leu Glu
        50                    55                    60
Pro Ser Leu Glu Ala Lys Arg Gln Thr Val Leu Asp Lys Met Lys Ser
65                    70                    75                    80
Thr Phe Glu Lys Lys Met Gln Arg Gln His Glu Leu Ser Glu Ser Cys
                85                    90                    95
```

Ser Ala Ser Ala Leu Gln Ala Arg Leu Lys Val Ala Ala His Glu Ala
             100   105   110

Glu Glu Glu Ser Asp Asn Ile Ala Glu Asp Phe Leu Glu Gly Lys Met
             115   120   125

Glu Ile Asp Asp Phe Leu Ser Ser Phe Met Glu Lys Arg Thr Ile Cys
         130   135   140

His Cys Arg Arg Ala Lys Glu Glu Lys Leu Gln Gln Ala Ile Ala Met
145   150   155   160

His Ser Gln Phe His Ala Pro Leu
             165

<210> 2377

<211> 352

<212> PRT

<213> Homo sapiens

<400> 2377

Met Pro Ser Gly Val Pro Gly Cys Trp Pro Gln Leu Pro Leu Lys Gly
  1   5   10   15

Pro Trp Arg Pro Thr Pro Arg Pro Arg Val Pro Val Pro Trp Arg Thr
             20   25   30

Pro Arg Phe Ala Cys Arg Trp Leu Gly Tyr Leu Gly Leu Leu Leu Leu
         35   40   45

Asp Val Ile Ile Cys Leu Leu Val Leu Val Gly Leu Ile Arg Ser Ser
         50   55   60

Lys Gly Ile Leu Val Gly Val Cys Leu Leu Gly Val Leu Ala Leu Val
65   70   75   80

Ile Ser Trp Gly Ala Leu Gly Leu Glu Leu Ala Val Ser Val Gly Ser
             85   90   95

Ser Asp Phe Cys Val Asp Pro Asp Ala Tyr Val Thr Lys Met Val Glu
             100   105   110

Glu Tyr Ser Val Leu Ser Gly Asp Ile Leu Gln Tyr Tyr Leu Ala Cys
             115   120   125

Ser Pro Arg Ala Ala Asn Pro Phe Gln Gln Lys Leu Ser Gly Ser His
         130   135   140

Lys Ala Leu Val Glu Met Gln Asp Val Val Ala Glu Leu Leu Arg Thr
145   150   155   160

Val Pro Trp Glu Gln Pro Ala Thr Lys Asp Pro Leu Leu Arg Val Gln
                165   170   175

Glu Val Leu Asn Gly Thr Glu Val Asn Leu Gln His Leu Thr Ala Leu
                180   185   190

Val Asp Cys Arg Ser Leu His Leu Asp Tyr Val Gln Ala Leu Thr Gly
                195   200   205

Phe Cys Tyr Asp Gly Val Glu Gly Leu Ile Tyr Leu Ala Leu Phe Ser
        210   215   220

Phe Val Thr Ala Leu Met Phe Ser Ser Ile Val Cys Ser Val Pro His
225   230   235   240

Thr Trp Gln Gln Lys Arg Gly Pro Asp Glu Asp Gly Glu Glu Glu Ala
                245   250   255

Ala Pro Gly Pro Arg Gln Ala His Asp Ser Leu Tyr Arg Val His Met
                260   265   270

Pro Ser Leu Tyr Ser Cys Gly Ser Ser Tyr Gly Ser Glu Thr Ser Ile
        275   280   285

Pro Ala Ala Ala His Thr Val Ser Asn Ala Pro Val Thr Glu Tyr Met
        290   295   300

Ser Gln Asn Ala Asn Phe Gln Asn Pro Arg Cys Glu Asn Thr Pro Leu
305   310   315   320

Ile Gly Arg Glu Ser Pro Pro Pro Ser Tyr Thr Ser Ser Met Arg Ala
                325   330   335

Lys Tyr Leu Ala Thr Ser Gln Pro Arg Pro Asp Ser Ser Gly Ser His
        340   345   350

<210> 2378

<211> 551

<212> PRT

<213> Homo sapiens

<400> 2378

Met Gln Arg Phe Leu Leu Glu Ile Ser Asn Pro Glu Thr Leu Ser Asn
  1   5   10   15

Thr Ala Gly Phe Glu Gly Tyr Ile Asp Leu Gly Arg Glu Leu Ser Ser
                20   25   30

Leu His Ser Leu Leu Trp Glu Ala Val Ser Gln Leu Glu Gln Ser Ile
            35   40   45

Val Ser Lys Leu Gly Pro Leu Pro Arg Ile Leu Arg Asp Val His Thr
        50   55   60

Ala Leu Ser Thr Pro Gly Ser Gly Gln Leu Pro Gly Thr Asn Asp Leu
65   70   75   80

Ala Ser Thr Pro Gly Ser Gly Ser Ser Ser Ile Ser Ala Gly Leu Gln
                85   90   95

Lys Met Val Ile Glu Asn Asp Leu Ser Gly Ser Ser Gly Val Gln Pro
                100   105   110

Ser Pro Ala Arg Ser Ser Ser Tyr Ser Glu Ala Asn Glu Pro Asp Leu
            115   120   125

Gln Met Ala Asn Gly Gly Lys Ser Leu Ser Met Val Asp Leu Gln Asp
        130   135   140

Ala Arg Thr Leu Asp Gly Glu Ala Gly Ser Pro Ala Gly Pro Asp Val
145   150   155   160

Leu Pro Thr Asp Gly Gln Ala Ala Ala Ala Gln Leu Val Ala Gly Trp
                165   170   175

Pro Ala Arg Ala Thr Pro Val Asn Leu Ala Gly Leu Ala Thr Val Arg
            180   185   190

Arg Ala Gly Gln Thr Pro Thr Thr Pro Gly Thr Ser Glu Gly Ala Pro
            195   200   205

Gly Arg Pro Gln Leu Leu Ala Pro Leu Ser Phe Gln Asn Pro Val Tyr
        210   215   220

Gln Met Ala Ala Gly Leu Pro Leu Ser Pro Arg Gly Leu Gly Asp Ser
225   230   235   240

Gly Ser Glu Gly His Ser Ser Leu Ser Ser His Ser Asn Ser Glu Glu
                245   250   255

Leu Ala Ala Ala Ala Lys Leu Gly Ser Phe Ser Thr Ala Ala Glu Glu
                260   265   270

Leu Ala Arg Arg Pro Gly Glu Leu Ala Arg Arg Gln Met Ser Leu Thr
            275   280   285

Glu Lys Gly Gly Gln Pro Thr Val Pro Arg Gln Asn Ser Ala Gly Pro
        290   295   300

Gln Arg Arg Ile Asp Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro
305   310   315   320

Ala Pro Arg Gly Arg Thr Pro Pro Asn Leu Leu Ser Thr Leu Gln Tyr
                325   330   335

Pro Arg Pro Ser Ser Gly Thr Leu Ala Ser Ala Ser Pro Asp Trp Val
                340   345   350

Gly Pro Ser Thr Arg Leu Arg Gln Gln Ser Ser Ser Ser Lys Gly Asp
            355   360   365

Ser Pro Glu Leu Lys Pro Arg Ala Val His Lys Gln Gly Pro Ser Pro
        370   375   380

Val Ser Pro Asn Ala Leu Asp Arg Thr Ala Ala Trp Leu Leu Thr Met
385   390   395   400

Asn Ala Gln Leu Leu Glu Asp Glu Gly Leu Gly Pro Asp Pro Pro His
                405   410   415

Arg Asp Arg Leu Arg Ser Lys Asp Glu Leu Ser Gln Ala Glu Lys Asp
                420   425   430

Leu Ala Val Leu Gln Asp Lys Leu Arg Ile Ser Thr Lys Lys Leu Glu
            435   440   445

Glu Tyr Glu Thr Leu Phe Lys Cys Gln Glu Glu Thr Thr Gln Lys Leu
        450   455   460

Val Leu Glu Tyr Gln Ala Arg Leu Glu Glu Gly Glu Glu Arg Leu Arg
465   470   475   480

Arg Gln Gln Glu Asp Lys Asp Ile Gln Met Lys Gly Ile Ile Ser Arg
                485   490   495

Leu Met Ser Val Glu Glu Glu Leu Lys Lys Asp His Ala Glu Met Gln
                500   505   510

Ala Ala Val Asp Ser Lys Gln Lys Ile Ile Asp Ala Gln Glu Lys Arg
            515   520   525

Ile Ala Ser Leu Asp Ala Ala Asn Ala Arg Leu Met Ser Ala Leu Thr
            530   535   540

Gln Leu Lys Glu Ser Met His
545   550

<210> 2379

<211> 461

<212> PRT

<213> Homo sapiens

<400> 2379

Met Gly Ala Gly Pro Gln His Ala Thr Leu Gln Ala Tyr Pro Glu Ala
1   5   10   15
Gly Thr Ile Glu Gly Leu Ala Ser Leu Leu Val Ala Leu Leu Glu Lys
                20   25   30
Thr Thr Trp Val Asp Arg Val His Ile Leu Gln Val Leu Leu Arg Leu
                35   40   45
Leu Pro Asn Met Ser Ser Asp Leu Gln Gly Gln Leu Gln Gly Leu Leu
            50   55   60
Val His Leu Leu Asn Leu Asp Gln Pro Pro Ser Leu Gln Val Cys Pro
65   70   75   80
Leu Ser Cys Pro Gln Phe Ser Ser Pro Pro Thr Gly Pro Gln Gln Pro
                85   90   95
His Pro His Arg Leu Pro Gln Asp Gln Thr Gln Lys Lys Phe Val Ile
                100   105   110
Leu Ala Leu Gln Leu Leu Leu Ala Cys Ser Leu Glu Ser Arg Asp Val
                115   120   125
Val Leu Glu Leu Met Ser Tyr Phe Leu Tyr Ser Pro Val His Cys Arg
                130   135   140
Pro Glu Leu Lys Lys Leu Leu His Gly Leu Gly Leu Gln Asp Pro Glu
145   150   155   160
Gly Phe Leu Phe Lys Glu Met Met Thr Trp Val Gln Gly Pro Asp Leu
                165   170   175
Asp Ser Lys Ala Gly Leu Arg Thr Cys Cys His Gln Lys Leu Glu Asp
                180   185   190
Met Ile Gln Glu Leu Gln Glu Thr Pro Ser Gln Thr Ser Val Val Ser
                195   200   205
Gly Ala Pro Thr Arg Ala Ser Val Ile Pro Ser Gly Thr Ser Trp Ser
                210   215   220
Ala Ser Gly Ile Phe Gly Arg Leu Ser Gln Val Ser Glu Val Pro Leu
225   230   235   240
Met Val Val Ser Pro Ala Glu Pro His Ser Leu Ala Pro Glu Leu Gln

```
                    245                 250                 255
Ala Gln Arg Met Leu Ala Pro Thr Arg Ser Trp Gly Thr Pro Gln Leu
            260                 265                 270
Arg Leu Arg Val Leu Ser Glu Thr Leu Lys Ser Phe Cys Leu Glu Pro
            275                 280                 285
Glu Ala Arg Leu His Pro Ala Gly Pro Ala Gln Leu Pro Gly Glu Pro
        290                 295                 300
Pro Pro Leu Glu Glu Thr Asp Trp Ser His Ser Gln Leu Leu Asp Leu
305                 310                 315                 320
Gly Pro Ile Asp Ala Leu Asn Phe Phe Cys Glu Gln Leu Arg Ala Gln
                325                 330                 335
Gln Arg Ser Ser Leu Gln Glu Lys Ala Ala His Pro His Pro Pro Val
            340                 345                 350
Pro Tyr Thr Val Ala Pro Val Pro Asp Met Val Val Pro Pro Pro Arg
            355                 360                 365
Glu His Trp Tyr His Pro Ile Leu Arg Leu Gln Glu Ala Lys Pro Gln
        370                 375                 380
Arg Ser Ala Arg Ser Ala Met Arg Leu Arg Gly Pro Met Pro Ser Arg
385                 390                 395                 400
Leu Cys Ala Gly Arg Thr Leu Asp Gly Pro Ile Arg Thr Leu Lys Leu
                405                 410                 415
Pro Leu Pro Arg Val Glu Pro Gln Pro Phe Pro Leu Asp Trp Pro Met
            420                 425                 430
Pro Pro Arg Pro Leu Pro Pro Arg Leu Leu Gln Pro Ala Leu Gln Arg
            435                 440                 445
Tyr Phe Leu Pro Ala Asp Ala Asp Pro Asp Thr Tyr Ser
        450                 455                 460
```

<210> 2380

<211> 722

<212> PRT

<213> Homo sapiens

<400> 2380

Met Glu Cys Cys Gln Thr Leu Val Ser His His Val Asp Pro Ser Leu

```
        1               5                    10                      15
Arg Asp Glu Asp Gly Tyr Thr Ala Ala Asp Leu Ala Glu Tyr His Gly
                20                    25                    30
His Arg Asp Cys Ala Gln Tyr Leu Arg Glu Val Ala Gln Pro Val Pro
                35                    40                    45
Leu Leu Met Thr Pro Pro Pro Pro Pro Phe Pro Pro Pro Pro Leu Leu
            50                    55                    60
Ala Thr Arg Arg Ser Leu Glu Asp Gly Arg Arg Gly Gly Pro Gly Pro
    65                    70                    75                    80
Gly Asn Pro Ser Pro Met Ser Leu Ser Pro Ala Trp Pro Gly His Pro
                85                    90                    95
Asp Gln Pro Leu Pro Arg Glu Gln Met Thr Ser Pro Ala Pro Pro Arg
                100                   105                   110
Ile Ile Thr Ser Ala Thr Ala Asp Pro Glu Gly Thr Glu Thr Ala Leu
                115                   120                   125
Ala Gly Asp Thr Ser Asp Gly Leu Ala Ala Leu Gln Leu Asp Gly Leu
        130                   135                   140
Pro Ser Gly Asp Ile Asp Gly Leu Val Pro Thr Arg Asp Glu Arg Gly
145                   150                   155                   160
Gln Pro Ile Pro Glu Trp Lys Arg Gln Val Met Val Arg Lys Leu Gln
                165                   170                   175
Ala Arg Leu Gly Ala Glu Ser Ser Ala Glu Ala Gln Asp Asn Gly Gly
            180                   185                   190
Ser Ser Gly Pro Thr Glu Gln Ala Ala Trp Arg Tyr Ser Gln Thr His
            195                   200                   205
Gln Ala Ile Leu Gly Pro Phe Gly Glu Leu Leu Thr Glu Asp Asp Leu
        210                   215                   220
Val Tyr Leu Glu Lys Gln Ile Ala Asp Leu Gln Leu Arg Arg Arg Cys
225                   230                   235                   240
Gln Glu Tyr Glu Ser Glu Leu Gly Arg Leu Ala Ala Glu Leu Gln Ala
                245                   250                   255
Leu Leu Pro Glu Pro Leu Val Ser Ile Thr Val Asn Ser His Phe Leu
                260                   265                   270
Pro Arg Ala Pro Gly Leu Glu Val Glu Glu Ala Ser Val Pro Ala Ala
            275                   280                   285
Glu Pro Ser Gly Ser Ala Glu Ala Ser Glu Val Ala Pro Gly Val Gln
```

```
            290                     295                     300
Pro Leu Pro Phe Trp Cys Ser His Ile Ser Arg Leu Val Arg Ser Leu
305                     310                     315                     320
Ser Leu Leu Leu Lys Gly Val His Gly Leu Val Gln Gly Asp Glu Lys
                        325                     330                     335
Pro Ser Thr Arg Pro Leu Gln Asp Thr Cys Arg Glu Ala Ser Ala Ser
                        340                     345                     350
Pro Pro Arg Ser Glu Ala Gln Arg Gln Ile Gln Glu Trp Gly Val Ser
                        355                     360                     365
Val Arg Thr Leu Arg Gly Asn Phe Glu Ser Ala Ser Gly Pro Leu Cys
                        370                     375                     380
Gly Phe Asn Pro Gly Pro Cys Glu Pro Gly Ala Gln His Arg Gln Cys
385                     390                     395                     400
Leu Ser Gly Cys Trp Pro Ala Leu Pro Lys Pro Arg Ser Gly Leu Ala
                        405                     410                     415
Ser Gly Glu Pro Arg Pro Gly Asp Thr Glu Glu Ala Ser Asp Ser Gly
                        420                     425                     430
Ile Ser Cys Glu Glu Val Pro Ser Glu Ala Gly Ala Ala Ala Gly Pro
                        435                     440                     445
Asp Leu Ala Ser Leu Arg Lys Glu Arg Ile Ile Met Leu Phe Leu Ser
                        450                     455                     460
His Trp Arg Arg Ser Ala Tyr Thr Pro Ala Leu Lys Thr Ala Ala Cys
465                     470                     475                     480
Arg Thr Leu Gly Ala Arg His Ala Gly Leu Arg Gly Gln Glu Ala Ala
                        485                     490                     495
Arg Ser Pro Gly Pro Pro Ser Pro Pro Ser Glu Gly Pro Arg Leu Gly
                        500                     505                     510
His Leu Trp Gln Gln Arg Ser Thr Ile Thr His Leu Leu Gly Asn Trp
                        515                     520                     525
Lys Ala Ile Met Ala His Val Pro Ala Arg Gln Leu Arg Arg Leu Ser
                        530                     535                     540
Arg Arg Pro Arg Gly Ala Leu Ser Pro Glu Gln Phe Leu Pro His Val
545                     550                     555                     560
Asp Gly Ala Pro Val Pro Tyr Ser Ser Leu Ser Leu Asp Leu Phe Met
                        565                     570                     575
Leu Gly Tyr Phe Gln Leu Leu Glu Cys Asp Leu Pro Ala Glu Glu Arg
```

```
                 580                    585                    590
Lys Leu Arg His Leu Leu Cys Phe Glu Val Phe Glu His Leu Gly Thr
             595                    600                    605
His Gly Trp Glu Ala Val Arg Ala Phe His Lys Ala Val Thr Asp Glu
             610                    615                    620
Val Ala Ala Gly Arg Arg Ala Trp Thr Asp Gly Phe Glu Asp Ile Lys
625                    630                    635                    640
Ala Arg Phe Phe Gly Ser Ser Gln Arg Pro Ala Trp Asp Thr Glu Pro
                 645                    650                    655
Gly Arg Lys Ser Gly Leu Thr Leu Leu Gly Pro Leu Pro His Ala Ala
               660                    665                    670
Val Pro Cys Ser Gly Pro Glu Pro Thr Ala Gln Arg Leu Gly Ser Arg
             675                    680                    685
Ser Gln Gln Gly Ser Phe Asn Gly Glu Asp Ile Cys Gly Tyr Ile Asn
             690                    695                    700
Arg Ser Phe Ala Phe Trp Lys Glu Lys Glu Ala Glu Met Phe Asn Phe
705                    710                    715                    720
Gly Glu
```

```
Met Leu Thr Pro Ser Ser Gln Val His Ala Tyr Ile Ile Ser Ser Leu
  1                    5                    10                    15
Lys Lys Glu Met Pro Asn Val Phe Gly Lys Glu Ser Lys Lys Lys Glu
               20                    25                    30
Leu Val Asn Asn Leu Gly Glu Ile Tyr Gln Lys Ile Glu Arg Glu His
             35                    40                    45
Gln Ile Ser Pro Gly Asp Phe Pro Ser Leu Arg Lys Met Gln Glu Leu
           50                    55                    60
Leu Gln Thr Gln Asp Phe Ser Lys Phe Gln Ala Leu Lys Pro Lys Leu
```

```
        65                     70                     75                     80
Leu Asp Thr Val Asp Asp Met Leu Ala Asn Asp Ile Ala Arg Leu Met
                        85                     90                     95
Val Met Val Arg Gln Glu Glu Ser Leu Met Pro Ser Gln Val Val Lys
                   100                    105                    110
Gly Gly Ala Phe Asp Gly Thr Met Asn Gly Pro Phe Gly His Gly Tyr
              115                    120                    125
Gly Glu Gly Ala Gly Glu Gly Ile Asp Asp Val Glu Trp Val Val Gly
         130                    135                    140
Lys Asp Lys Pro Thr Tyr Asp Glu Ile Phe Tyr Thr Leu Ser Pro Val
145                    150                    155                    160
Asn Gly Lys Ile Thr Gly Ala Asn Ala Lys Lys Glu Met Val Lys Ser
                   165                    170                    175
Lys Leu Pro Asn Thr Val Leu Gly Lys Ile Trp Lys Leu Ala Asp Val
              180                    185                    190
Asp Lys Asp Gly Leu Leu Asp Asp Glu Glu Phe Ala Leu Ala Asn His
              195                    200                    205
Leu Ile Lys Val Lys Leu Glu Gly His Glu Leu Pro Ala Asp Leu Pro
         210                    215                    220
Pro His Leu Val Pro Pro Ser Lys Arg Arg His Glu
225                    230                    235
```

```
<210> 2382
<211> 162
<212> PRT
<213> Homo sapiens

<400> 2382
Met Ile Tyr Ser Thr Leu Thr Arg Arg Arg Trp Pro Met Pro Glu Pro
 1               5                      10                     15
Thr Ser Glu His Leu Asn Leu Arg Pro Cys Leu Ile Tyr Val Leu Phe
                   20                     25                     30
Tyr Val Gln Val Gln Pro Thr Leu Trp Cys Asn Ala Asn Leu Trp Leu
              35                     40                     45
Tyr Cys Ile Thr Ala Asn Lys Ser Ile Trp Arg Lys Arg His Leu Val
```

```
                50                  55                  60
Lys Gly His Ser Ala Met Glu Cys Asn Ala Ala Met Cys Asn Ala Ala
65                  70                  75                  80
Tyr Lys Lys Thr Leu Gly Lys Tyr Cys Thr Gly Gln Thr Tyr Asp Pro
                    85                  90                  95
Thr Phe Ser Arg Asn Arg Ala Ala Tyr Trp Met Pro Ser Glu Phe Pro
                    100                 105                 110
Phe Ser Val Ser Thr Leu Leu Phe Asp Ala Met Pro Pro His Lys Ser
                    115                 120                 125
Ile Gln Ala Thr Val Ile Tyr Phe Phe Pro Ser Phe Ser Pro Cys Tyr
                130                 135                 140
Asn Asp Pro Asn Leu Arg Phe Tyr Phe Val Ile Phe Val Ser Phe Leu
145                 150                 155                 160
Arg Gln
```

<210> 2383

<211> 776

<212> PRT

<213> Homo sapiens

<400> 2383

```
Met Gly Thr Val Pro Asp Pro Leu Arg Ser Ala Lys Thr Ser Leu Ile
1                   5                   10                  15
Ala Ala Ser Gly Lys Glu Asp Asp Leu Gly Glu Pro Gln Ala Ala Ser
                20                  25                  30
Pro Arg His Arg Pro Ala Leu Leu Cys Lys Asn Ala Asn Gly Phe Ser
                35                  40                  45
Gly Ala Pro Ala Glu Pro Asp Leu Ser Pro Arg Ala Ala Ala Glu Ala
                50                  55                  60
Leu Met Gln Val Cys Glu His Glu Thr Thr Gln Pro Asp Met Ser Ser
65                  70                  75                  80
Pro Gly Val Phe Asn Glu Val Gln Lys Ala Pro Ala Thr Phe Asn Ser
                85                  90                  95
Pro Gly Asn Pro Gln Leu Pro Gly Ser Ser Gln Pro Ala Ala Ser Ala
```

```
                100                     105                     110
Pro Ser Ser Ala Ala Gly Arg Asp Leu Ile His Thr Pro Leu Thr Met
            115                     120                     125
Pro Ala Asn Gln His Thr Cys Gln Ser Ile Pro Gly Asp Gln Pro Asn
        130                     135                     140
Ala Ile Thr Ser Ser Met Pro Glu Asp Ser Leu Met Arg Ser Gln Arg
145                     150                     155                     160
Thr Ser Asn Arg Glu Gln Pro Glu Lys Pro Ser Cys Pro Val Gly Gly
                165                     170                     175
Val Leu Ser Ser Ser Lys Asp Gln Val Ser Cys Glu Phe Pro Ser Pro
                180                     185                     190
Glu Thr Ile Gln Gly Thr Val Gln Thr Pro Val Thr Ala Ala Arg Val
                195                     200                     205
Val Ser His Ser Ser Ser Pro Val Gly Gly Pro Glu Gly Glu Arg Gln
        210                     215                     220
Gly Ala Ile Cys Asp Ser Glu Met Arg Ser Cys Lys Pro Leu Thr Arg
225                     230                     235                     240
Glu Ser Gly Cys Ser Glu Asn Lys Gln Pro Ser Val Thr Ala Ser Gly
                245                     250                     255
Pro Gln Gly Thr Thr Ser Val Thr Pro Gln Pro Thr Pro Leu Thr Ser
                260                     265                     270
Glu Pro Ser Ala Cys Pro Pro Gly Pro Glu Lys Val Pro Leu Pro Ala
            275                     280                     285
Gln Arg Gln Met Ser Arg Phe Lys Glu Ala Ser Thr Met Thr Asn Gln
        290                     295                     300
Ala Glu Ser Glu Ile Lys Glu Val Pro Ser Arg Ala Trp Gln Asp Ala
305                     310                     315                     320
Glu Val Gln Ala Val Ala Ser Val Glu Ser Arg Ser Val Ser Thr Ser
                325                     330                     335
Pro Ser Ile Leu Thr Ala Phe Leu Lys Glu Ser Arg Ala Pro Glu His
            340                     345                     350
Phe Glu Gln Glu Gln Leu Arg Val Ile Cys Arg Ser Ser Gly Ser His
            355                     360                     365


Thr Leu Glu Leu Ser Asp Ser Thr Leu Ala Pro Gln Glu Ser Ser Gln
        370                     375                     380
```

Cys Pro Gly Ile Met Pro Gln Val His Ile Gln Ala Ala Ala Ala Glu
385   390   395   400

Ser Thr Ala Phe Gln Arg Glu Asn Lys Leu Ala Ser Leu Pro Gly Gly
            405   410   415

Val Leu Lys Thr Ser Ser Ile Asn Leu Val Ser Ser Asn Ala Gln His
        420   425   430

Thr Cys Lys Glu Asp Gly Arg Leu Ala Gly Met Thr Pro Ala Arg Glu
        435   440   445

Glu Ser Thr Ala Lys Lys Leu Ala Gly Thr Asn Ser Ser Ser Leu Lys
    450   455   460

Ala Thr Ala Ile Asp Gln Ile Ser Ile Ser Ala Cys Ser Gln Ala Glu
465   470   475   480

Thr Ser Tyr Gly Leu Gly Lys Phe Glu Thr Arg Pro Ser Glu Phe Ala
            485   490   495

Glu Lys Thr Thr Asn Gly His Lys Thr Asp Pro Asp Cys Lys Leu Ser
        500   505   510

Asp Ser Cys Gly Ser Ile Ser Lys Ala Asp His Ser Gly Ser Leu Asp
        515   520   525

Pro Thr Asn Lys Gly Asp Ala Arg Glu Lys Lys Pro Ala Ser Pro Gln
    530   535   540

Val Val Lys Glu Lys Glu Ser Thr Gly Thr Asp Thr Ser Asp Ala Lys
545   550   555   560

Thr Leu Leu Leu Asn Pro Lys Ser Gln Glu Ser Gly Gly Thr Glu Ser
            565   570   575

Ala Ala Asn Pro Thr Pro Ser Pro Ile Arg Lys Asn Gln Glu Ser Thr
            580   585   590

Leu Glu Glu Asn Arg Gln Thr Lys Thr Ala Thr Ser Leu Ser Leu Pro
    595   600   605

Ser Asp Pro Met Gly Asp Ser Ser Pro Gly Ser Gly Lys Lys Thr Pro
    610   615   620

Ser Arg Ser Val Lys Ala Ser Pro Arg Arg Pro Ser Arg Val Ser Glu
625   630   635   640

Phe Leu Lys Glu Gln Lys Leu Asn Val Thr Ala Ala Ala Ala Gln Val
            645   650   655

Gly Leu Thr Pro Gly Asp Lys Lys Lys Gln Leu Gly Ala Asp Ser Lys
        660   665   670

Leu Gln Leu Lys Gln Ser Lys Arg Val Arg Asp Val Val Trp Asp Glu
    675   680   685

Gln Gly Met Thr Trp Glu Val Tyr Gly Ala Ser Leu Asp Ala Glu Ser
   690   695   700

Leu Gly Ile Ala Ile Gln Asn His Leu Gln Arg Gln Ile Arg Glu His
705   710   715   720

Glu Lys Leu Ile Lys Thr Gln Asn Ser Gln Thr Arg Arg Ser Ile Ser
        725   730   735

Ser Asp Thr Ser Ser Asn Lys Lys Leu Arg Gly Arg Gln His Ser Val
        740   745   750

Phe Gln Ser Met Leu Gln Asn Phe Arg Arg Pro Asn Cys Cys Val Arg
        755   760   765

Pro Ala Pro Ser Ser Val Leu Asp
        770   775

<210> 2384

<211> 168

<212> PRT

<213> Homo sapiens

<400> 2384

Met Asn Phe Tyr Thr His Glu Val Cys Leu Gly Gly Pro Leu Leu Trp
 1   5   10   15

Ala Pro Leu Pro Tyr Asp Gly Ser Ile Cys Ser Leu Leu Phe Gln Glu
        20   25   30

Asp Leu Arg Pro Thr Ile Asn Gly Ser Gln Ile Gln Ile Pro Leu Gln
        35   40   45

Ala Ala Asn Val His Pro His Tyr Arg Lys Pro Pro Asp Thr Ser His
        50   55   60

Leu Leu Ala Ala Gln Asp Thr Gly Thr Gln Ile Leu Ala Cys Pro Glu
65   70   75   80

Gln Trp Leu Ser Arg Pro Gly Arg Gly Ala Arg Ala Gln Ser Gln Ala
        85   90   95

Gly Leu Pro Ala His Phe Cys Leu Pro Gly His His His Leu Pro Pro
        100   105   110

Arg Met Asn Leu Lys Leu Gln Gly Asn Glu Glu Lys Pro Arg Ser Glu
       115   120   125

Gly Thr Cys Asn Gln Gly Cys Pro Lys Trp Pro Leu Ser Arg Pro Ile
     130   135   140

Ser Lys Tyr Asn Pro His Arg Gly Cys Leu Val Gly Gln Lys Ser Leu
145   150   155   160

Gly Leu Val Pro Val Arg Gly Glu
        165

<210> 2385

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2385

Met Leu Cys Arg Asp Val Ala Pro Glu Gly Ile Ser Val Phe Thr Met
  1   5   10   15

Asp Met Gly Val Trp Asp Arg Leu Ser Cys Lys Gly Ser Val Ser Ile
         20   25   30

Ser Trp Asp Ser His Ser Val Ser Leu Ser Arg Phe Gln Val Thr Ser
         35   40   45

Arg Trp Thr Phe Arg Cys Pro Gly Cys Pro Gln Ala Leu Ser His Asp
     50   55   60

Asp Ser His Phe His Glu Arg His Lys Cys Ile Asn Phe Phe Val Lys
65   70   75   80

Val Tyr Gly Tyr Met Pro Leu Leu Tyr Thr Gln Phe Arg Val Asp Ser
         85   90   95

Val Leu Phe Lys Thr Arg Leu Pro His Asp Lys Thr Lys Cys Phe Lys
         100   105   110

Phe Ile

<210> 2386

<211> 291

<212> PRT

<213> Homo sapiens

<400> 2386

```
Met His Asn Lys Arg Lys Arg Pro Arg Lys Lys Ser Pro Arg Ala His
1               5                  10                  15

Arg Glu Met Leu Glu Ser Ala Val Leu Pro Pro Glu Asp Met Ser Gln
                20                  25                  30

Ser Gly Pro Ser Gly Ser His Pro Gln Gly Pro Arg Gly Ser Pro Thr
                35                  40                  45

Gly Gly Ala Gln Leu Leu Lys Arg Lys Arg Lys Leu Gly Val Val Pro
            50                  55                  60

Val Asn Gly Ser Gly Leu Ser Thr Pro Ala Trp Pro Pro Leu Gln Gln
65                  70                  75                      80

Glu Gly Pro Pro Thr Gly Pro Ala Glu Gly Ala Asn Ser His Thr Thr
                85                  90                  95

Leu Pro Gln Arg Arg Arg Leu Gln Lys Lys Lys Ala Gly Pro Gly Ser
                100                 105                 110

Leu Glu Leu Cys Gly Leu Pro Ser Gln Lys Thr Ala Ser Leu Lys Lys
                115                 120                 125

Arg Lys Lys Met Arg Val Met Ser Asn Leu Val Glu His Asn Gly Val
            130                 135                 140

Leu Glu Ser Glu Ala Gly Gln Pro Gln Ala Leu Gly Ser Ser Gly Thr
145                 150                 155                 160

Cys Ser Ser Leu Lys Lys Gln Lys Leu Arg Ala Glu Ser Asp Phe Val
                165                 170                 175

Lys Phe Asp Thr Pro Phe Leu Pro Lys Pro Leu Phe Phe Arg Arg Ala
                180                 185                 190

Lys Ser Ser Thr Ala Thr His Pro Pro Gly Pro Ala Val Gln Leu Asn
                195                 200                 205

Lys Thr Pro Ser Ser Ser Lys Lys Val Thr Phe Gly Leu Asn Arg Asn
            210                 215                 220

Met Thr Ala Glu Phe Lys Lys Thr Asp Lys Ser Ile Leu Val Ser Pro
225                 230                 235                 240

Thr Gly Pro Ser Arg Val Ala Phe Asp Pro Glu Gln Lys Pro Leu His
                245                 250                 255
```

Gly Val Leu Lys Thr Pro Thr Ser Ser Pro Ala Ser Ser Pro Leu Val
           260   265   270

Ala Lys Lys Pro Leu Thr Thr Thr Pro Arg Arg Arg Pro Arg Ala Met
           275   280   285

Asp Phe Phe
      290

<210> 2387

<211> 241

<212> PRT

<213> Homo sapiens

<400> 2387

Met Asn His Glu Trp Ile Gly Asn Glu Trp Leu Pro Ser Leu Gly Leu
  1   5   10   15

Pro Gln Tyr Arg Ser Tyr Phe Met Glu Cys Leu Val Asp Ala Arg Met
          20   25   30

Leu Asp His Leu Thr Lys Lys Asp Leu Arg Gly Gln Leu Lys Met Val
         35   40   45

Asp Ser Phe His Arg Asn Ser Phe Gln Cys Gly Ile Met Cys Leu Arg
      50   55   60

Arg Leu Asn Tyr Asp Arg Lys Glu Leu Glu Arg Lys Arg Glu Glu Ser
65   70   75   80

Gln Ser Glu Ile Lys Asp Val Leu Val Trp Ser Asn Asp Arg Val Ile
             85   90   95

Arg Trp Ile Leu Ser Ile Gly Leu Lys Glu Tyr Ala Asn Asn Leu Ile
          100   105   110

Glu Ser Gly Val His Gly Ala Leu Leu Ala Leu Asp Glu Thr Phe Asp
         115   120   125

Phe Ser Ala Leu Ala Leu Leu Leu Gln Ile Pro Thr Gln Asn Thr Gln
         130   135   140

Ala Arg Ala Val Leu Glu Arg Glu Phe Asn Asn Leu Leu Val Met Gly
145   150   155   160

Thr Asp Arg Arg Phe Asp Glu Asp Asp Asp Lys Ser Phe Arg Arg Ala

```
                    165                      170                      175
Pro Ser Trp Arg Lys Lys Phe Arg Pro Lys Asp Ile Arg Gly Leu Ala
                180                      185                      190
Ala Gly Ser Ala Glu Thr Leu Pro Ala Asn Phe Arg Val Thr Ser Ser
                195                      200                      205
Met Ser Ser Pro Ser Met Gln Pro Lys Lys Met Gln Met Asp Gly Asn
        210                      215                      220
Val Ser Gly Thr Gln Arg Leu Asp Ser Ala Thr Val Arg Thr Tyr Ser
225                      230                      235                      240
Cys
```

<210> 2388

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2388

```
Met Pro Gln Ile Glu Gly Trp Ser His Arg Leu Pro Arg Leu Ser Pro
  1               5                      10                      15
Leu Pro Val Thr Arg Pro His Ser Phe Leu Pro Pro Arg Arg Ser Gln
                20                      25                      30
Gly Gly Arg Ser Arg Leu Asp Ala Phe Leu Thr Pro Phe Gln Val Ala
            35                      40                      45
Pro Asp Ala Gly His Trp Glu Val Ala Thr Trp Gly His Gly His Glu
        50                      55                      60
Gly Trp Val Ser Val Gly Thr Arg Arg Ala Gly Cys Trp Thr Pro Thr
65                      70                      75                      80
His Pro Val Ser Cys Thr Arg Pro Tyr Ser Leu Cys Ser Gly Pro Gln
                85                      90                      95
Glu Ala Val Arg Ile Gly Gly Val Pro Leu Thr Gly Pro Gly Ala Phe
                100                     105                     110
His Leu Gly Ser Cys His Val His Pro Gln Ala Ser Asp Ser Trp Pro
            115                     120                     125
```

Arg Gly Arg Trp Cys Gly Pro Gln Ala Val Cys Ala Asp Ala Ala Arg
    130   135   140

<210> 2389

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2389

Met Phe Ser Ser Lys Ser Phe Lys Val Leu Ala Leu Ile Phe Arg Leu
  1   5   10   15

Leu Ile His Ile Glu Leu Asn Phe Val Tyr Gly Met Ile Asn Phe Ile
        20   25   30

Tyr Asp Met Leu Tyr Met Gly Ser Thr Ser Phe Tyr Gly Tyr Leu Val
      35   40   45

Val Gln Ala Leu Phe Val Glu Glu Ser Phe Leu Cys Pro Leu Asn Gly
    50   55   60

Leu Val Thr Leu Val Glu Asn Lys Pro Tyr Arg Pro Met Leu Ala Ile
65   70   75   80

Gly Phe Ile Ser Gly Leu Ser Ile Leu Phe His Trp Phe Val Cys Val
        85   90   95

Phe Leu Ser Leu Asn Asn Thr Ile Leu Ile Ile Val Leu Cys Ser Lys
        100   105   110

Phe

<210> 2390

<211> 124

<212> PRT

<213> Homo sapiens

<400> 2390

Met Val Val Val Leu Ala Tyr Ile Pro Thr Ile Ser Val Lys Ala Phe
  1   5   10   15

Phe His His Val Cys Ala Asn Ile Asn Phe Cys Phe Phe Cys Phe Cys
           20   25   30

Phe Cys Phe Phe Phe Glu Met Glu Ser Arg Ser Val Thr Gln Ala Gly
           35   40   45

Val Gln Trp Cys Asp Ile Ser Ser Leu Gln Pro Leu Pro Pro Gly Phe
    50   55   60

Lys Gln Phe Phe Cys Leu Ser Leu Leu Ser Ser Trp Asp Tyr Arg Gln
65   70   75   80

Leu Pro Pro Cys Leu Ala Asn Phe Cys Ile Phe Ser Arg Asp Ser Val
           85   90   95

Ser Pro Cys Trp Ser Gly Trp Ser Gln Thr Pro Asp Leu Leu Ile Arg
          100   105   110

Pro Pro Arg Pro Pro Lys Val Leu Gly Leu Gln Ala
          115   120

<210> 2391

<211> 163

<212> PRT

<213> Homo sapiens

<400> 2391

Met Ala Trp Arg Pro Pro Ser Pro Asp Leu Gly Pro Gln Ala Gln Gly
1   5   10   15

His Ile Glu Gln Glu Asp Gly Ala Leu Pro His Ser Gly Glu Ala Glu
          20   25   30

Arg Gly Asp Leu Pro Pro Leu Gly Pro Leu Leu Thr Pro Ser Leu Pro
          35   40   45

Pro Thr Pro Glu Thr Ser Pro Leu Pro Thr Gly Leu Ala Thr Leu Leu
    50   55   60

Thr Trp Pro Val Leu Asp Leu Val Asp Val Ala Ala Val Gln Arg Lys
65   70   75   80

Glu Arg Leu Arg Trp Gln Ser Arg Pro Leu Ser Leu Pro Lys Leu Ser
          85   90   95

Asn Phe Ser Pro Phe Leu Pro Pro Arg Lys Leu Ala Ala Gln Ser His
          100   105   110

Val Gln Asn Pro Ala Gly His Leu His Gly Ala Asn Tyr Gln Gln Val
        115   120   125

Ser Phe Leu Arg His Arg Val Gln Ala Ala Thr Pro Ala Pro Glu Met
        130   135   140

Lys Gly Gln Leu Cys Lys Asp Pro Glu Pro Ala Pro Arg Gly Pro Glu
145   150   155   160

Pro Pro Thr

<210> 2392

<211> 175

<212> PRT

<213> Homo sapiens

<400> 2392

Met His Ala His Lys Gln Ala Ser Thr His Val His Ile Thr His Thr
 1   5   10   15

Ser Arg His Ser Cys Thr Asp Ser Tyr Thr Gly His Val Pro Ala Arg
        20   25   30

Thr Cys Thr His Thr His Ala Gln Ala Leu Met His Arg Cys Thr His
        35   40   45

Thr Gln Gly Met Tyr Leu His Thr Arg Val Asn Thr Arg Thr Gly Thr
        50   55   60

His Ala Asp Ala Arg Ile His Ser Ala Ser Thr Cys Thr Arg Val His
65   70   75   80

Ile His Ala His Ala Gly Thr His Ala Gln Met His Thr Gln Cys Thr
        85   90   95

Tyr Leu His Thr Arg Val His Thr His Thr His Arg His Ser Cys Pro
        100   105   110

Asp Ala Asn Ile His Cys Thr Tyr Leu His Thr Arg Ala His Thr His
        115   120   125

Ala Gln Ala Leu Met Gln Thr Tyr Ala Gln Cys Thr Tyr Leu His Thr
        130   135   140

Arg Thr His Thr His Thr Gln Ala Leu Met His Arg Cys Thr His Thr
145   150   155   160

Gln Cys Thr Tyr Leu His Thr Arg Val His Ala His Thr Val Pro
           165   170   175

<210> 2393

<211> 189

<212> PRT

<213> Homo sapiens

<400> 2393

Met Pro Glu Gln Ser Asn Asp Tyr Arg Val Ala Val Phe Gly Ala Gly
 1   5   10   15

Gly Val Gly Lys Ser Ser Leu Val Leu Arg Phe Val Lys Gly Thr Phe
         20   25   30

Arg Glu Ser Tyr Ile Pro Thr Val Glu Asp Thr Tyr Arg Gln Val Ile
      35   40   45

Ser Cys Asp Lys Ser Ile Cys Thr Leu Gln Ile Thr Asp Thr Thr Gly
   50   55   60

Ser His Gln Phe Pro Ala Met Gln Arg Leu Ser Ile Ser Ile Thr Ser
65   70   75   80

Arg Gln Ser Leu Glu Glu Leu Lys Pro Ile Tyr Glu Gln Ile Cys Glu
         85   90   95

Ile Lys Gly Asp Val Glu Ser Ile Pro Ile Met Leu Val Gly Asn Lys
        100   105   110

Cys Asp Glu Ser Pro Ser Arg Glu Val Gln Ser Ser Glu Ala Glu Ala
      115   120   125

Leu Ala Arg Thr Trp Lys Cys Ala Phe Met Glu Thr Ser Ala Lys Leu
     130   135   140

Asn His Asn Val Lys Glu Leu Phe Gln Glu Leu Leu Asn Leu Glu Lys
145   150   155   160

Arg Arg Thr Val Ser Leu Gln Ile Asp Gly Lys Lys Ser Lys Gln Gln
         165   170   ·175

Lys Arg Lys Glu Lys Leu Lys Gly Lys Cys Val Ile Met
         180   185

<210> 2394

<211> 190

<212> PRT

<213> Homo sapiens

<400> 2394

Met Ala Ala Ser Gln Gln Gln Ala Ser Ala Ala Ser Ser Ala Ala Gly

1   5   10   15

Val Ser Gly Pro Ser Ser Ala Gly Gly Pro Gly Pro Gln Gln Gln Pro

          20   25   30

Gln Pro Pro Ala Gln Leu Val Gly Pro Ala Gln Ser Gly Leu Leu Gln

        35   40   45

Arg Tyr Lys Met Leu Ile Pro Gln Leu Lys Glu Ser Leu Gln Thr Leu

    50   55   60

Met Lys Val Ala Ala Gln Asn Leu Ile Gln Asn Thr Asn Ile Asp Asn

65   70   75   80

Gly Gln Lys Ser Ser Asp Gly Pro Ile Gln Arg Phe Asp Lys Cys Leu

          85   90   95

Glu Glu Phe Tyr Ala Leu Cys Asp Gln Leu Glu Leu Cys Leu Arg Leu

        100   105   110

Ala His Glu Cys Leu Ser Gln Ser Cys Asp Ser Ala Lys His Ser Pro

        115   120   125

Thr Leu Val Pro Thr Ala Thr Lys Pro Asp Ala Val Gln Pro Asp Ser

    130   135   140

Leu Pro Tyr Pro Gln Tyr Leu Ala Val Ile Lys Ala Gln Ile Ser Cys

145   150   155   160

Ala Lys Asp Ile His Thr Ala Leu Leu Asp Cys Ala Asn Lys Val Thr

          165   170   175

Gly Lys Thr Pro Ala Pro Pro Ala Gly Pro Gly Gly Thr Leu

        180   185   190

<210> 2395

<211> 174

<212> PRT

<213> Homo sapiens

<400> 2395

Met Ser Glu Phe Pro Phe Thr Thr Asn Arg Ile Lys Tyr Leu Gly Ile
1   5   10   15

Gln Leu Thr Arg Asp Val Lys Asp Leu Phe Lys Glu His Tyr Lys Pro
            20   25   30

Leu Leu Lys Glu Ile Arg Gly His Lys Gln Met Glu Lys Asn Ile Leu
            35   40   45

Cys Ser Trp Ile Gly Arg Ile Asn Ile Val Lys Met Ala Ile Leu Pro
        50   55   60

Lys Val Ile Tyr Arg Phe Lys Ala Thr Pro Ile Lys Leu Pro Leu Thr
65   70   75   80

Phe Phe Ala Glu Leu Glu Lys Thr Thr Leu Asn Phe Leu Trp Asn His
                85   90   95

Lys Arg Ala His Ile Val Lys Thr Ile Leu Ser Lys Lys Lys Ala Gly
            100   105   110

Gly Ile Arg Leu Pro Asp Phe Lys Leu Tyr Tyr Lys Ala Asn Gln Asn
            115   120   125

Thr Tyr Arg Gly Gln Trp Asn Arg Thr Glu Thr Ser Glu Ile Thr Pro
    130   135   140

Asp Ile Tyr Leu Gly Ile Gln Leu Val Ser Asn Ser Arg Pro Gln Val
145   150   155   160

Ile Leu Leu Pro Trp Pro Pro Lys Val Leu Gly Leu Gln Ala
                165   170

<210> 2396
<211> 141
<212> PRT
<213> Homo sapiens

<400> 2396

Met Leu Ala Cys Cys Ser Pro Pro Thr Met Gln Pro Gly Ser Tyr Gln
1   5   10   15

```
Ala Thr Asp Gln Tyr Gln Ser Thr Ala Gln Gly Leu Gly Thr Pro Gly
            20                  25                  30
Val Ser Ser Gly Ser Phe Ala Leu Pro Met Pro Pro Gly Leu Ala Ala
            35                  40                  45
Val Leu Glu Thr Gly Val Ser Arg Arg Leu Cys Ser Trp Trp Ala Gly
        50                  55                  60
Ala Glu Met Ala Glu Ala His Pro Ile Ile Cys Gln Lys Glu Asp Thr
65                  70                  75                  80
Leu Val Ser Pro Gly Leu Gly Thr Leu Gln Phe Ala Ala Leu Leu Arg
                85                  90                  95
Leu Ala Ser Gly Gln Leu Leu Thr Leu Pro Leu Thr Pro Gln Ser Gln
            100                 105                 110
Ala Pro Asp Ala Pro Trp Thr Ser Pro Thr Pro Arg Val Ile Trp Ser
            115                 120                 125
Gly Ser Ala Gly Val Thr Leu Ser Leu Thr Lys Gly Phe
            130                 135                 140
```

<210> 2397

<211> 445

<212> PRT

<213> Homo sapiens

<400> 2397

```
Met Pro Asn Ser Ser Pro Lys Asp Pro Thr Thr Ala Ser Gly Asn Gly
1               5                   10                  15
Ser Lys Val Glu Arg Glu Lys Arg Lys Asp Glu Leu Leu Asn Ile Ala
            20                  25                  30
Lys Ser Lys Gln Glu Arg Thr Asn Ser Glu Leu His Asn Leu Arg Gln
            35                  40                  45
Ile Tyr Val Lys Gln Gln Ser Asp Leu Gln Phe Leu Asn Phe Asn Val
        50                  55                  60
Glu Asn Ser Gln Glu Leu Ile Gln Met Tyr Asp Ser Lys Met Glu Glu
65                  70                  75                  80
Ser Lys Ala Leu Asp Ser Ser Arg Asp Met Cys Leu Ser Asp Leu Glu
                85                  90                  95
```

Asn Asn His Pro Lys Val Asp Ile Lys Arg Glu Lys Asn Gln Lys Ser
           100   105   110

Leu Phe Lys Asp Gln Lys Phe Glu Ala Met Leu Val Gln Gln Asn Arg
           115   120   125

Ser Asp Lys Ser Ser Cys Asp Glu Cys Lys Glu Lys Lys Gln Gln Ile
     130   135   140

Asp Thr Val Phe Gly Glu Lys Ser Val Ile Thr Leu Ser Ser Ile Phe
145   150   155   160

Thr Lys Asp Leu Val Glu Lys His Asn Leu Pro Trp Ser Leu Gly Gly
           165   170   175

Lys Thr Gln Ile Glu Pro Glu Asn Lys Ile Thr Leu Cys Lys Ile His
           180   185   190

Thr Lys Ser Pro Lys Cys His Gly Thr Gly Val Gln Asn Glu Gly Lys
           195   200   205

Gln Pro Ser Glu Thr Pro Thr Leu Ser Asp Glu Lys Gln Trp His Asp
     210   215   220

Val Ser Val Tyr Leu Gly Leu Thr Asn Cys Pro Ser Ser Lys His Pro
225   230   235   240

Glu Lys Leu Asp Val Glu Cys Gln Asp Gln Met Glu Arg Ser Glu Ile
           245   250   255

Ser Cys Cys Gln Lys Asn Glu Ala Cys Leu Gly Glu Ser Gly Met Cys
           260   265   270

Asp Ser Lys Cys Cys His Pro Ser Asn Phe Ile Ile Glu Ala Pro Gly
           275   280   285

His Met Ser Asp Val Glu Trp Met Ser Ile Phe Lys Pro Ser Lys Met
           290   295   300

Gln Arg Ile Val Arg Leu Lys Ser Gly Cys Thr Cys Ser Glu Ser Ile
305   310   315   320 ·

Cys Gly Thr Gln His Asp Ser Pro Ala Ser Glu Leu Ile Ala Ile Gln
           325   330   335

Asp Ser His Ser Leu Gly Ser Ser Lys Ser Ala Leu Arg Glu Asp Glu
           340   345   350

Thr Glu Ser Ser Ser Asn Lys Lys Asn Ser Pro Thr Ser Leu Leu Ile
           355   360   365

Tyr Lys Asp Ala Pro Ala Phe Asn Glu Lys Ala Ser Ile Val Leu Pro
           370   375   380

Ser Gln Asp Asp Phe Ser Pro Thr Ser Lys Leu Gln Arg Leu Leu Ala
385   390   395   400
Glu Ser Arg Gln Met Val Thr Asp Leu Glu Leu Ser Thr Leu Leu Pro
                405   410   415
Ile Ser His Glu Asn Leu Thr Gly Ser Ala Thr Asn Lys Ser Glu Val
                420   425   430
Pro Glu Glu Ser Ala Gln Lys Asn Thr Phe Val Ser Tyr
            435   440   445

<210> 2398

<211> 339

<212> PRT

<213> Homo sapiens

<400> 2398

Met Glu Lys Gly Leu Ser Ser Thr Ile Arg Val Val Gly His Val Pro
  1   5   10   15
Gly Glu Phe Pro Val Ser Val Trp Val Thr Ala Ala Asp Cys Trp Met
                20   25   30
Cys Gln Pro Val Ala Arg Gly Phe Val Val Leu Pro Ile Thr Glu Phe
            35   40   45
Leu Val Gly Asp Leu Val Val Thr Gln Asn Thr Ser Leu Pro Trp Pro
        50   55   60
Ser Ser Tyr Leu Thr Lys Thr Val Leu Lys Val Ser Phe Leu Leu His
65   70   75   80
Asp Pro Ser Asn Phe Leu Lys Thr Ala Leu Phe Leu Tyr Ser Trp Asp
                85   90   95
Phe Gly Asp Gly Thr Gln Met Val Thr Glu Asp Ser Val Val Tyr Tyr
            100   105   110
Asn Tyr Ser Ile Ile Gly Thr Phe Thr Val Lys Leu Lys Val Val Ala
            115   120   125
Glu Trp Glu Glu Val Glu Pro Asp Ala Thr Arg Ala Val Lys Gln Lys
            130   135   140
Thr Gly Asp Phe Ser Ala Ser Leu Lys Leu Gln Glu Thr Leu Arg Gly
145   150   155   160

Ile Gln Val Leu Gly Pro Thr Leu Ile Gln Thr Phe Gln Lys Met Thr
                165   170   175

Val Thr Leu Asp Phe Leu Gly Ser Pro Pro Leu Thr Val Cys Trp Arg
                180   185   190

Leu Lys Pro Glu Cys Leu Pro Leu Glu Glu Gly Glu Cys His Pro Val
                195   200   205

Ser Val Ala Ser Thr Ala Tyr Asn Leu Thr His Thr Phe Arg Asp Pro
            210   215   220

Gly Asp Tyr Cys Phe Ser Ile Arg Ala Glu Asn Ile Ile Ser Lys Thr
225   230   235   240

His Gln Tyr His Lys Ile Gln Val Trp Pro Ser Arg Ile Gln Pro Ala
                245   250   255

Val Phe Ala Phe Pro Cys Ala Thr Leu Ile Thr Val Met Leu Ala Phe
                260   265   270

Ile Met Tyr Met Thr Leu Arg Asn Ala Thr Gln Gln Lys Asp Met Val
                275   280   285

Glu Asn Pro Glu Pro Pro Ser Gly Val Arg Cys Cys Cys Gln Met Cys
            290   295   300

Cys Gly Pro Phe Leu Leu Glu Thr Pro Ser Glu Tyr Leu Glu Ile Val
305   310   315   320

Arg Glu Asn His Gly Leu Leu Pro Pro Leu Tyr Lys Ser Val Lys Thr
                325   330   335

Tyr Thr Val

<210> 2399

<211> 196

<212> PRT

<213> Homo sapiens

<400> 2399

Met Ser Pro Trp Lys Asp Gly Gly Ser Leu Val Glu Val Tyr Leu Leu
  1   5   10   15

Asp Thr Ser Ile Gln Ser Asp His Arg Glu Ile Glu Gly Arg Val Met
                20   25   30

Val Thr Asp Phe Glu Asn Val Pro Glu Glu Asp Gly Thr Arg Phe His
     35   40   45

Arg Gln Ala Ser Lys Cys Asp Ser His Gly Thr His Leu Ala Gly Val
     50   55   60

Val Ser Gly Arg Asp Ala Gly Val Ala Lys Gly Ala Ser Met Arg Ser
65   70   75   80

Leu Arg Val Leu Asn Cys Gln Gly Lys Gly Thr Val Ser Gly Thr Leu
           85   90   95

Ile Gly Leu Glu Phe Ile Arg Lys Ser Gln Leu Val Gln Pro Val Gly
        100   105   110

Pro Leu Val Val Leu Leu Pro Leu Ala Gly Gly Tyr Ser Arg Val Leu
      115   120   125

Asn Ala Ala Cys Gln Arg Leu Ala Arg Ala Gly Val Val Leu Val Thr
     130   135   140

Ala Ala Gly Asn Phe Arg Asp Asp Ala Cys Leu Tyr Ser Pro Ala Ser
145   150   155   160

Ala Pro Glu Gly Arg Thr Ser Leu Val Pro Pro Ala Thr Ala Ala Pro
        165   170   175

Ala Leu Cys His Arg Val Gly His His Arg Leu Leu Pro Thr Trp Leu
      180   185   190

Ala Leu Gln Pro
     195

<210> 2400

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2400

Met Cys His Tyr Ala Trp Leu Ile Phe Val Glu Met Arg Phe His His
1   5   10   15

Val Ala Gln Ala Gly Leu Tyr Leu Leu Ser Ser Ser Asp Leu Pro Ala
     20   25   30

Ser Ala Ser Gln Cys Trp Val Cys Arg His Glu Pro Leu Cys Pro Val
     35   40   45

Arg Met Ala Ile Leu Met Ile Lys Ala Lys Ile Phe Ile Leu Leu Ser
    50   55   60

Arg Phe Gly Ile His Ile Pro Glu Asn Ser Met Ile His Pro Leu Thr
65   70   75   80

Thr Asn Phe Arg Lys Gln Ala Val Leu Phe His Ser Leu Lys Asn Asn
            85   90   95

Arg Ser Pro Ser Asn Lys
            100

<210> 2401

<211> 117

<212> PRT

<213> Homo sapiens

<400> 2401

Met Lys Phe Phe His Asp Leu Asp Val Ile Leu Gln Tyr Glu Pro Ala
1   5   10   15

Thr Gln Phe Thr Glu Glu Asp Ala Asn Gly Arg Tyr Leu Glu Thr Leu
            20   25   30

Ser Pro Ser Thr Ala Pro Glu Thr Thr Glu Glu Phe Leu Leu Val Cys
        35   40   45

Asp Thr Arg Lys Lys Gly Arg Lys Arg Lys Cys Leu Phe His Cys Trp
    50   55   60

Asp Gln Pro His Ala Ser Gly Lys Met Ser Ile Ala Ser Val Asp Lys
65   70   75   80

Glu Asp Val Ser Gly Asn Pro Leu Leu Leu Val Ser His Val Arg Pro
            85   90   95

Met Glu Leu Gly Thr Leu Arg Gln Tyr Trp Asn Pro Leu Ile Ile Gln
            100   105   110

Leu Leu Thr Gln Leu
            115

<210> 2402

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2402

Met	Gln	Ser	Lys	Leu	Ile	Leu	Ser	Leu	Cys	Thr	Phe	Val	Ser	Ala	Gly
1				5					10					15	

His	Cys	Leu	Phe	Arg	Glu	Leu	Val	Ala	Gln	Gly	Leu	His	Met	Gly	Ala
			20					25				30			

Lys	Met	Val	Val	Asp	Thr	Pro	Trp	Cys	Thr	Phe	Cys	Phe	Thr	Cys	Phe
		35				40					45				

Leu	Arg	Leu	Phe	His	Lys	Ser	Cys	Glu	Ala	Lys	Lys	Gln	Asn	Lys	Thr
	50					55				60					

Lys	Gln	Pro	Asn	Lys	Tyr	Asn	Leu	Thr	Phe	Thr	Gln	Ser	Thr	Ala	Gly
65				70					75						80

Asn	Gln	Arg	Ser	Gly	Trp	Asn	Glu	Arg	Lys	Tyr	Ala	Lys	Arg	Ser	Phe
				85					90					95	

Leu	Ser	Leu	Ile	Ser	Cys	Leu
			100			

<210> 2403

<211> 172

<212> PRT

<213> Homo sapiens

<400> 2403

Met	Gln	Glu	Gly	Pro	Ser	Gly	Ala	Gly	Leu	Gly	Pro	His	Ile	Gly	Leu
1				5					10					15	

Pro	Gly	His	Leu	Ile	Tyr	Leu	Gly	Ser	Asn	Lys	Glu	Pro	Trp	Arg	Gln
			20					25				30			

Ala	Arg	Ala	Val	Ala	Lys	Arg	Pro	Arg	Ser	Cys	Gly	Thr	Arg	Leu	Val
		35				40					45				

Pro	Ala	Ser	Val	Pro	Leu	Ser	Leu	Glu	Phe	Gly	Arg	Ala	Leu	Ser	Ser
	50					55				60					

Ala	Gly	Val	Cys	Ser	Arg	Pro	Met	Pro	Glu	Val	Gly	Pro	Leu	Ala	Ile
65				70					75						80

Val Ser Ile Gly Gly Val Ser Ser Pro Pro Ser Gly Asn Pro Tyr Ser
            85   90   95

Gly Thr Leu His Cys Cys Gly Gly Val His Thr Gly Gly Cys Glu Ser
          100   105   110

His Cys Ala Val Leu Ala Gln Gly Ser Gly Lys Gly Phe Trp Glu Gly
          115   120   125

Met Gly Thr Lys Leu Asp Leu Asn Asp Glu Ala Glu Leu Val Ser Gln
        130   135   140

Ala Arg Gly Val Gln Arg Asp His Ser Ala Glu Ala Lys Ala Val Lys
145   150   155   160

Lys Val Ala Trp Met Val Thr His Arg Ser Arg Ala
         165   170

<210> 2404

<211> 711

<212> PRT

<213> Homo sapiens

<400> 2404

Met Leu Ala Ser Leu Lys Val Lys Lys Gln Glu Leu Ala Asn Ser Ser
 1   5   10   15

Asp Ala Thr Leu Pro Asp Arg Pro Leu Ser Pro Pro Leu Thr Ala Pro
        20   25   30

Pro Thr Met Lys Ser Ser Glu Phe Phe Glu Met Leu Glu Lys Met Gln
        35   40   45

Gly Ile Lys Leu Glu Glu Gln Lys Pro Gly Pro Gln Lys Asn Lys Asp
        50   55   60

Asp Tyr Ile Pro Tyr Pro Ser Ile Asp Glu Val Val Glu Lys Gly Gly
65   70   75   80

Pro Tyr Pro Gln Val Ile Leu Pro Gln Phe Gly Gly Tyr Trp Ile Glu
        85   90   95

Asp Pro Glu Asn Val Gly Thr Pro Thr Ser Leu Gly Ser Ser Ile Cys
        100   105   110

Glu Glu Glu Glu Glu Asp Asn Leu Ser Pro Asn Thr Phe Gly Tyr Lys
        115   120   125

Leu Glu Cys Lys Gly Glu Ala Arg Ala Tyr Arg Arg His Phe Leu Gly
    130   135   140

Lys Asp His Leu Asn Phe Tyr Cys Thr Gly Ser Ser Leu Gly Asn Leu
145   150   155   160

Ile Leu Ser Val Lys Cys Glu Glu Ala Glu Gly Ile Glu Tyr Leu Arg
           165   170   175

Val Ile Leu Arg Ser Lys Leu Lys Thr Val His Glu Arg Ile Pro Leu
        180   185   190

Ala Gly Leu Ser Lys Leu Pro Ser Val Pro Gln Ile Ala Lys Ala Phe
        195   200   205

Cys Asp Asp Ala Val Gly Leu Arg Phe Asn Pro Val Leu Tyr Pro Lys
        210   215   220

Ala Ser Gln Met Ile Val Ser Tyr Asp Glu His Glu Val Asn Asn Thr
225   230   235   240

Phe Lys Phe Gly Val Ile Tyr Gln Lys Ala Arg Gln Thr Leu Glu Glu
          245   250   255

Glu Leu Phe Gly Asn Asn Glu Glu Ser Leu Ala Phe Lys Glu Phe Leu
        260   265   270

Asp Leu Leu Gly Asp Thr Ile Thr Leu Gln Asp Phe Lys Gly Phe Arg
        275   280   285

Gly Gly Leu Asp Val Thr His Gly Gln Thr Gly Val Glu Ser Val Tyr
        290   295   300

Thr Thr Phe Arg Asp Arg Glu Ile Met Phe His Val Ser Thr Lys Leu
305   310   315   320

Pro Phe Thr Asp Gly Asp Ala Gln Gln Leu Gln Arg Lys Arg His Ile
          325   330   335

Gly Asn Asp Ile Val Ala Ile Ile Phe Gln Glu Glu Asn Thr Pro Phe
        340   345   350

Val Pro Asp Met Ile Ala Ser Asn Phe Leu His Ala Tyr Ile Val Val
        355   360   365

Gln Val Glu Thr Pro Gly Thr Glu Thr Pro Ser Tyr Lys Val Ser Val
        370   375   380

Thr Ala Arg Glu Asp Val Pro Thr Phe Gly Pro Pro Leu Pro Ser Pro
385   390   395   400

Pro Val Phe Gln Lys Gly Pro Glu Phe Arg Glu Phe Leu Leu Thr Lys

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                  405                    410                    415
Leu Thr Asn Ala Glu Asn Ala Cys Cys Lys Ser Asp Lys Phe Ala Lys
            420                    425                    430
Leu Glu Asp Arg Thr Arg Ala Ala Leu Leu Asp Asn Leu His Asp Glu
            435                    440                    445
Leu His Ala His Thr Gln Ala Met Leu Gly Leu Gly Pro Glu Glu Asp
        450                    455                    460
Lys Phe Glu Asn Gly Gly His Gly Gly Phe Leu Glu Ser Phe Lys Arg
465                    470                    475                    480
Ala Ile Arg Val Arg Ser His Ser Met Glu Thr Met Val Gly Gly Gln
                485                    490                    495
Lys Lys Ser His Ser Gly Gly Ile Pro Gly Ser Leu Ser Gly Gly Ile
            500                    505                    510
Ser His Asn Ser Met Glu Val Thr Lys Thr Thr Phe Ser Pro Pro Val
            515                    520                    525
Val Ala Ala Thr Val Lys Asn Gln Ser Arg Ser Pro Ile Lys Arg Arg
        530                    535                    540
Ser Gly Leu Phe Pro Arg Leu His Thr Gly Ser Glu Gly Gln Gly Asp
545                    550                    555                    560
Ser Arg Ala Arg Cys Asp Ser Thr Ser Ser Thr Pro Lys Thr Pro Asp
                565                    570                    575
Gly Gly His Ser Ser Gln Glu Ile Lys Ser Glu Thr Ser Ser Asn Pro
            580                    585                    590
Ser Ser Pro Glu Ile Cys Pro Asn Lys Glu Lys Pro Phe Met Lys Leu
            595                    600                    605
Lys Glu Asn Gly Arg Ala Ile Ser Arg Ser Ser Ser Ser Thr Ser Ser
        610                    615                    620
Val Ser Ser Thr Ala Gly Glu Gly Glu Ala Met Glu Glu Gly Asp Ser
625                    630                    635                    640
Gly Gly Ser Gln Pro Ser Thr Thr Ser Pro Phe Lys Gln Glu Val Phe
                645                    650                    655
Val Tyr Ser Pro Ser Pro Ser Ser Glu Ser Pro Ser Leu Gly Ala Ala
            660                    665                    670
Ala Thr Pro Ile Ile Met Ser Arg Ser Pro Thr Asp Ala Lys Ser Arg
            675                    680                    685
Asn Ser Pro Arg Ser Asn Leu Lys Phe Arg Phe Asp Lys Leu Ser His
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690   695   700
Ala Ser Ser Gly Ala Gly His
705   710

<210> 2405

<211> 165

<212> PRT

<213> Homo sapiens

<400> 2405

Met Glu His Met Glu Phe Arg Arg Lys Pro Thr Lys Thr Pro Ala Cys
 1   5   10   15

Gln Thr His Pro Val Pro Glu Arg Gly Val Pro Leu Ser Phe Asn Glu
             20   25   30

Leu Pro Val Ile Thr Ala Met Pro Ser Pro Arg Trp Gly Gly Val Leu
         35   40   45

Gly Cys Phe Ser Gln Arg Pro Leu Phe Pro Ala Ala Ile Ser Phe Thr
         50   55   60

Trp Thr Thr Leu Leu Ala His Val Pro Leu Ala Ser Thr Gly Gly His
65   70   75   80

Arg Pro Glu Pro Trp Val Gln Gly Cys Pro Ser Leu Leu Pro Ser Pro
                 85   90   95

Pro Leu Lys Ala Gln Ser Cys Trp Val Gly Cys Leu Gly Leu Pro Ser
             100   105   110

Phe Pro Trp Lys Pro Val Ala Thr Leu Val His Gly Thr Leu Asp Lys
             115   120   125

Ser Ala Pro Arg Gly Gln Thr Cys Ala Pro Ile Leu Ala Cys Ile Leu
         130   135   140

Arg Thr Pro His Ala Ala Gly Leu Cys Ala Trp Gly Gly Val Ala Ser
145   150   155   160

Leu Ser Trp Ser Val
                 165

<210> 2406

<211> 120
<212> PRT
<213> Homo sapiens

<400> 2406

Met	Ala	His	Gly	Ser	Thr	Gln	Ala	Phe	Leu	Ser	Pro	Trp	Ser	Ser	Gln

Met Ala His Gly Ser Thr Gln Ala Phe Leu Ser Pro Trp Ser Ser Gln
1   5   10   15
Leu Leu Thr Ser Thr Thr Cys Arg Ile Arg Gly His Arg Ser Arg Gln
            20   25   30
Arg Glu Gly Val Thr Arg Gly Gln Met Val Gln Gly Arg Arg Asp Ser
            35   40   45
Arg Leu His Ala Gly Gln Arg Asn Ser Lys Gly Arg Arg Ile Ala Glu
        50   55   60
Ala Gly Gly Lys Ala Ala Arg Ala Arg Gly Thr Gln Ser Tyr Cys Thr
65   70   75   80
Pro Lys Arg Gln Pro Val Leu Glu Arg Ala Ala Ala Lys Pro Ile Tyr
                85   90   95
Cys Ser Phe Tyr Tyr Ser Val Leu Pro Gly Leu Arg Pro Gly Lys Leu
                100   105   110
Phe Gln Ala Glu Ile Thr Ala His
        115   120

<210> 2407
<211> 106
<212> PRT
<213> Homo sapiens

<400> 2407

Met Gly Glu Cys Tyr Pro Cys Gln Val Val Gly Ala Ser Trp Leu Gln
1   5   10   15
Ser Trp Val Gly Asp Leu Gly Lys Met Leu Trp Lys Ala Val Ser Gly
            20   25   30
Trp Cys Gln Leu Leu Val Val Gln Trp Glu Ile Trp Ser Gly Met Gly
            35   40   45
Trp Ser Glu Gly Gly Arg Gly Ile Trp Cys Gly Val Asp Gln Arg Asn